

**BAUTSCH-GRAY MINE SITE
JO DAVIESS COUNTY, ILLINOIS**

RESIDENTIAL SOIL REMOVAL SUMMARY

February 18, 2011

Site Background

A residential property associated with the Bautsch-Gray Mine Site removal action is located at 746 South Blackjack Road in Galena, Jo Daviess County, Illinois (Figure 1 in Attachment A). This residence is located directly across Blackjack Road from the remnants of the Bautsch-Gray Mine Site, a former lead and zinc mining operation dating back to the early 1900's. The Site is located approximately 4 miles south of downtown Galena, Illinois, adjacent to South Blackjack Road. The Site is located in a rural agricultural and residential area and is bordered in all directions by rural and agricultural land. The meridian coordinates of the approximate center of the Site are latitude 42° 21' 26.72" North and longitude 90° 23' 54.85" West.

After large rain events in August of 2009, and again in July 2010, contaminated mine tailings were flushed from the main tailings pile across Blackjack Road and onto the residential property at 746 S. Blackjack Road. According to the Jo Daviess County Highway Department, this has apparently been a frequent problem during the rainy seasons over the last several years. Vehicles that travel on Blackjack Road create and disperse airborne dust that originates from mine tailing residue on and near the road.

During the week of October 6 through 8, 2009, United States Environmental Protection Agency (U.S. EPA) and their Superfund Technical Assessment and Response Team (START) contractor conducted a site assessment (SA) at the Bautsch Gray Site. In summary, U.S. EPA collected 36 surface soil samples and field screened Site soils with an x-ray fluorescence (XRF) instrument (InnovX). Residential well and surface water samples were also taken. Lead and arsenic results exceeding the action levels and cleanup levels were found around the mine tailings pile, in and around the road ditches along Blackjack Road and on the adjacent residential property.

U.S. EPA identified several areas with contaminated soil and mine tailings with lead and arsenic values in excess of the regulatory removal action levels of 1,200 parts per million (ppm) for lead. An access agreement to conduct remedial action was obtained by the U.S. EPA for the residence located at 746 South Blackjack Road.

Removal Activities

U.S. EPA; Weston Solutions, Inc., (WESTON®) START; and LATA-Kemron, the Emergency and Rapid Response Services (ERRS) contractor, mobilized to the Site on September 9, 2010, to begin removing mine tailings and impacted soil from the residential property. The residential removal cleanup level was established at 400 ppm for lead and 25 ppm for arsenic. Temporary

perimeter safety fencing was installed by the Potentially Responsible Parties (PRPs) to restrict Site access prior to construction activities, while allowing for property owner access to the residence.

Throughout earthmoving activities, air monitoring for airborne dust was conducted by WESTON START. Monitoring was implemented to ensure that (1) airborne particles did not migrate off site and (2) both particulate and metals levels did not pose a risk to site personnel or nearby residents. Four AirCon air pumps connected to 5 micrometer (μm) filter media encased in cartridges were utilized for air sampling. The sampling points were positioned on the site perimeter and attached to stands in the breathing zone, approximately 3-5 feet above ground level, to collect particles regardless of wind direction. The sampling cartridges were submitted for laboratory analysis for total metals and particulates. Results confirmed that metals and particulate levels did not pose a threat to property residents or site workers during the cleanup. In addition, four DataRAM air monitoring units were utilized to record and log total particulate levels during earthmoving activities. Data from these units was saved and reviewed daily to confirm that metals and particulate levels did not pose a threat to nearby residents or site workers.

Excavation of contaminated soil began on September 14, 2010. ERRS utilized excavators to load soil into dump trucks. Soil was excavated down 6-18 inches (in) below ground surface (bgs). Work around several large trees was completed with hand-held shovels in order to preserve the trees and their associated root systems. In the following areas (Figure 2 in Attachment A), excavation was completed as detailed below (all area, length, and depth values given are approximations):

- A 7,125 ft² area directly south of the house was excavated down 6 inches below ground surface.
- A 26,900 ft² area adjacent to Blackjack Rd. and extending out 60-100 feet west was excavated to a depth of 6-12 inches below ground surface.
- A 3,000 ft² gravel-covered area that formerly served as the residence's driveway path and front lawn was excavated down 12-18 inches below ground surface.
- A 13,400 ft² gully area bordered Blackjack Rd., the north yard fence, and the residence's driveway path was excavated down 12-18 inches below ground surface .
- The Blackjack Rd. east shoulder slope (from edge to pavement out 8 ft) from the north yard fence along the Blackjack Rd. 450 ft to the south tree line, 3,600 ft² was excavated 6 inches below ground surface.

In some areas, lead levels in the soil remained elevated above the residential removal cleanup level of 400 ppm at depths of 18 inches below ground surface . Clean backfill that was placed over the excavated areas on the property serves as a barrier to direct contact exposure and greatly reduces migration of contaminants from the area. ERRS placed plastic barrier sheeting (orange snow fence) over the areas that remained above 400 ppm lead at a depth of 18 inches

before backfilling with clean soil. The sheeting was secured with metal stakes as needed. The road shoulder was only excavated down 6 inches below ground surface to preserve the structural integrity of the roadbed and slope. In some areas, plastic barrier sheeting was installed over this area. Figure 2 in Attachment A indicates which areas had plastic barriers placed down prior to backfilling the area.

The impacted soil was transported back across Blackjack Road to the center of the mine tailing pile. A total of approximately 2,600 cubic yards (325 loads or approximately 700 tons) of contaminated soil/mine tailings was removed from the 746 South Blackjack Road residential property through completion of excavation work on October 8, 2010.

Soil screening and sampling was conducted by START to determine the area and depth of excavation needed for remediation. Site soil was field screened with an XRF instrument, Innov-X (Alpha Model 4000A), to determine the metals concentrations (in ppm) in the soil. This field screening instrument was utilized to identify contaminated areas on and around the site. The screening process involved removing any sod layer that was present and field screening the underlying soil with the instrument in situ. During excavation, the Innov-X was used to screen soil metals levels and to determine excavation depth.

Confirmatory soil samples were also collected to verify field screening readings prior to backfilling. A five-point composite sample was collected from an area less than 5,000 ft², as specified in the U.S. EPA Superfund Lead-Contaminated Residential Sites Handbook. These samples were submitted for total metals laboratory analysis. In total, 30 confirmatory samples were collected at 746 South Blackjack Rd in the lettered grids shown on Figure 2. A residential cleanup level of 400 ppm for lead was established. The laboratory results specified that the lead and arsenic levels in 20 of these grids met the residential cleanup levels. In the other 10 grids, excavation continued down to a maximum depth of 18 inches below ground surface. Plastic barrier sheeting was installed in areas with lead values above 400 ppm before backfilling. The confirmation sampling results are presented in Attachment B.

Under the gravel driveway northwest of the house, a large water well was uncovered during excavation. The four-foot diameter well extended down 32.5 ft, with 7.5 ft of water at the bottom. The Jo Davies County Health Department was notified and a representative was on site during the well abandonment procedure. This process included filling the well with alternating layers of bentonite and gravel.

During the excavation work, the roadway and driveway culvert were reconfigured to maintain proper stormwater drainage. An existing 18-in storm water culvert previously directed rainwater from the main tailings pile, under Blackjack Road, and onto the road ditch along the residential property. This road culvert will be removed, but was temporarily plugged at both ends to prevent mine tailing migration from water runoff through the winter and spring. A smaller drainage culvert was found on the residential property during the excavation of the driveway. It was removed along with the contaminated soil/mine tailings and a replacement drainage culvert was installed to maintain current property drainage around the driveway.

Backfilling with clean soil was conducted from September 30 to October 12, 2010. Locally-sourced replacement top soil and backfill was utilized. Prior to delivery on site, the material was tested and laboratory results confirmed only background levels of metals. At the request of the property owner, laboratory analysis of the soil pH was completed. The pH of the fill material was neutral and varied from the existing site soil by less than one pH unit. The laboratory results for the backfill are presented in Attachment C. To replace the driveway, crushed gravel was delivered to the site and was spread and compacted over the original driveway area.

Dump trucks were used to deliver this clean fill and top soil to the Site and heavy equipment was used to compact it to original grade level. A total of 46 loads or 920 cubic yards of soil was backfilled. To restore the grass on the property, grass seed was planted with a protective cover of either loose hay or a hay matting layer. Around the front and north side of the house, sod was installed. Landscaping activities at 746 South Blackjack Road were completed on October 14, 2010, with periodic watering of grass sod and seed continuing for an additional two weeks.

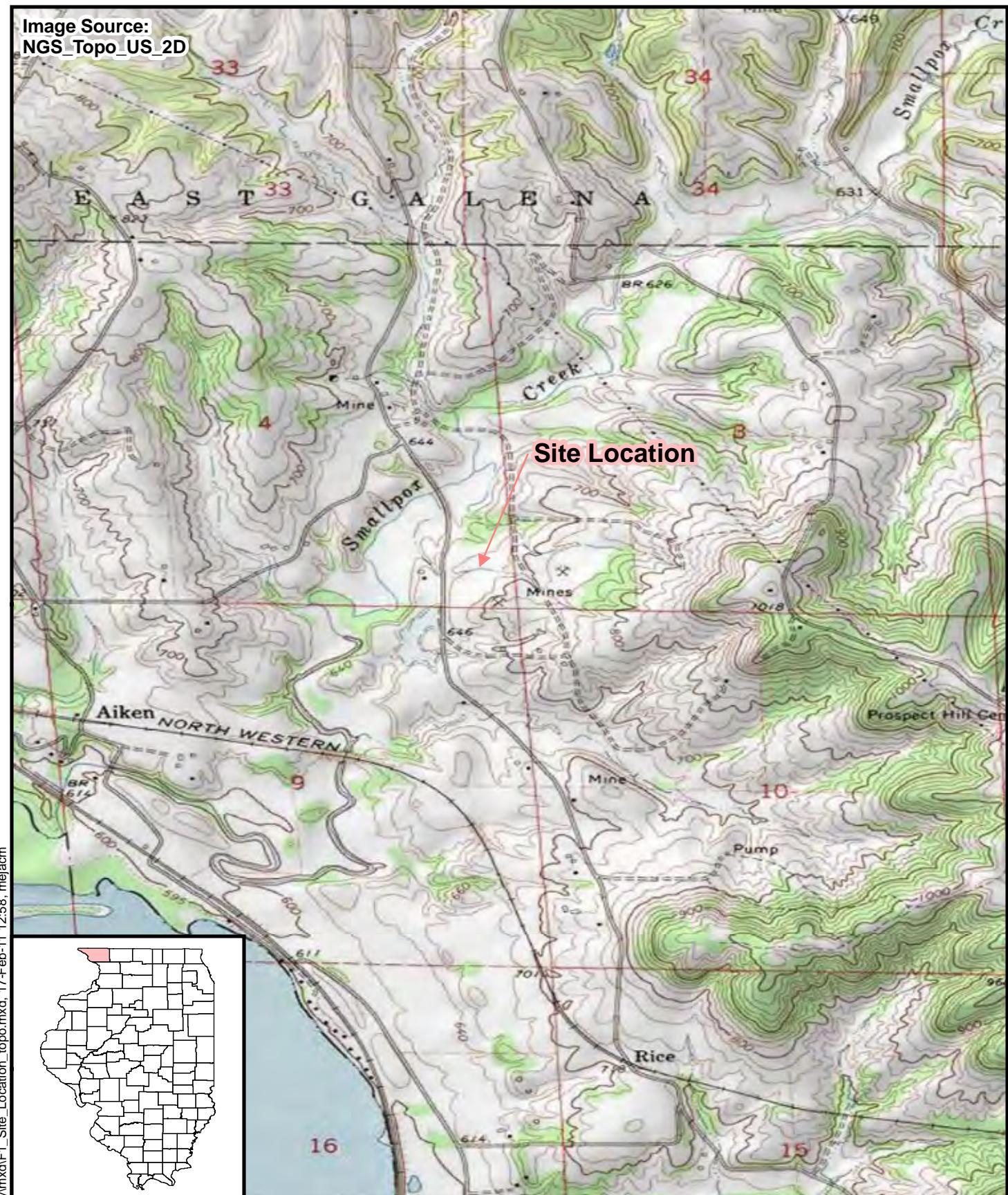
ATTACHMENT A
FIGURES

ATTACHMENT B
CONFIRMATION SAMPLING RESULTS

ATTACHMENT C
BACKFILL LABORATORY RESULTS

ATTACHMENT A
FIGURES

Image Source:
NGS_Topo_US_2D



File: D:\Bautsch_Grey\mxds\F1_Site_Location_topo.mxd, 17-Feb-11 12:58, mejacm

Legend

USGS Quad: Bellevue
0 2,000 Feet



Prepared for:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-0909-011
DCN: 874-2B-ALKM

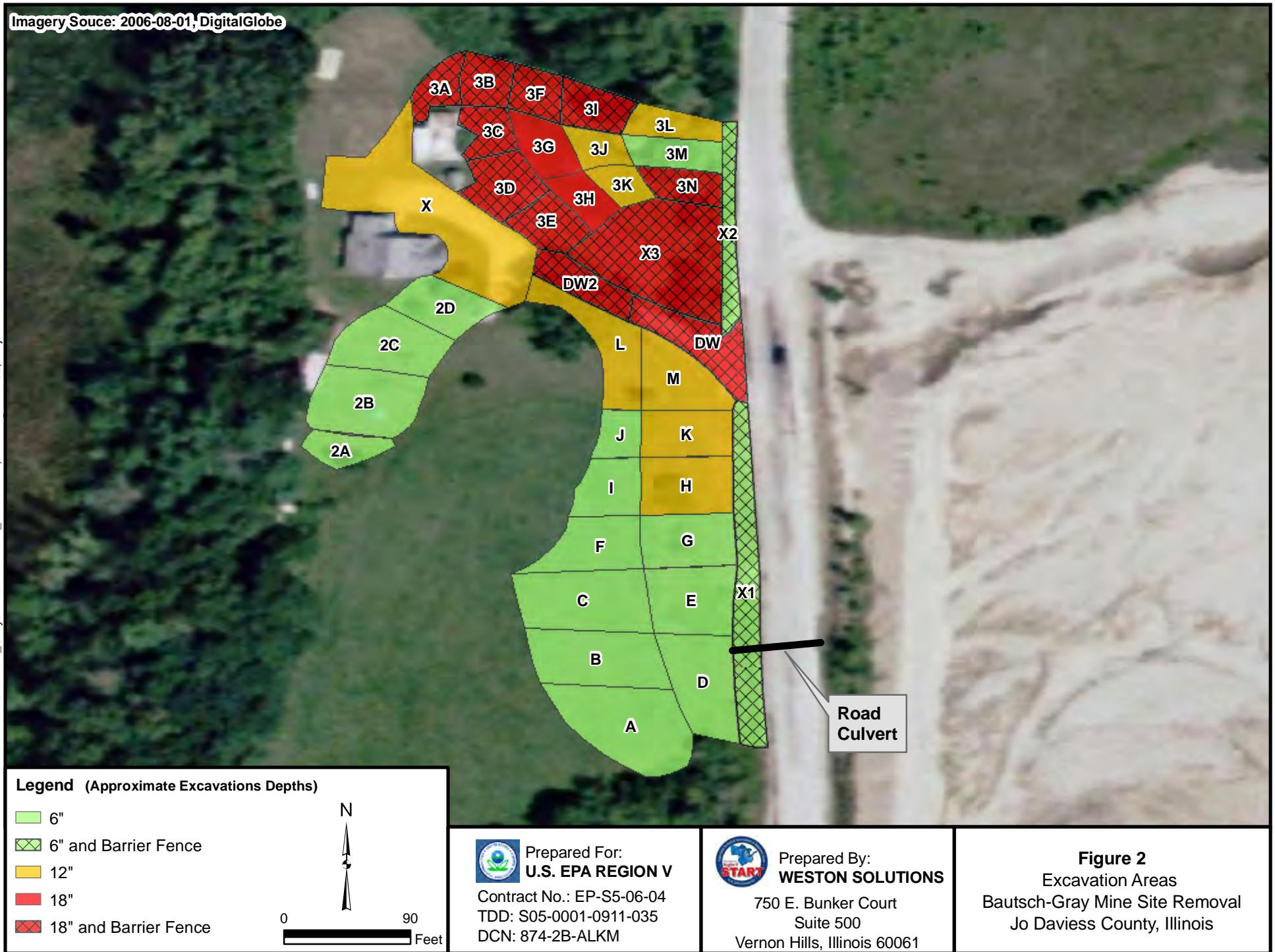


Prepared By:
**WESTON
SOLUTIONS, INC**
750 E. Bunker Court
Suite 500
Vernon Hills, Illinois 60061

Figure 1
Site Location Map
Bautsch-Gray Mine Site
Jo Daviess County, Illinois

Imagery Source: 2006-08-01, DigitalGlobe

File: D:\Bautsch_Gray\mxd\Excavation_Areas.mxd, 17-Feb-11 12:56, mejacm



ATTACHMENT B
CONFIRMATION SAMPLING RESULTS



October 5, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10J0038

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 10/4/2010 9:10:00AM for the analyses presented in the following report as Work Order 10J0038.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deb Griffiths". It is positioned over a light gray rectangular background.

Deborah Griffiths
Senior Project Manager

**WORK ORDER SAMPLE SUMMARY****Date:***Tuesday, October 5, 2010***Client:** LATA-Kemron Remediation LLC - Albuquerque, NM**Project:** Bautsch - Gray Mine Site**Lab Order:** 10J0038

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10J0038-01	BG-Soil YD01 - 100110		10/01/2010 14:00	10/4/2010 9:10:00AM
10J0038-02	BG-Soil YD02 - 100110		10/01/2010 14:10	10/4/2010 9:10:00AM



Analytical Results

Date: Tuesday, October 5, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil YD01 - 100110
Sample Description:
Matrix: Solid

Work Order/ID: 10J0038-01
Sampled: 10/01/2010 14:00
Received: 10/04/2010 9:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 9045C						Analyst: CS	
Prep Date/Time: 10/04/2010 14:00							
pH	pH	A 7.76	2.00	pH Units	1	10/04/2010 14:15	



Analytical Results

Date: Tuesday, October 5, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil YD02 - 100110
Sample Description:
Matrix: Solid

Work Order/ID: 10J0038-02
Sampled: 10/01/2010 14:10
Received: 10/04/2010 9:10

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 9045C						Analyst: CS	
pH						Prep Date/Time: 10/04/2010 14:00	
pH	A	7.70	2.00	pH Units	1	10/04/2010 14:15	



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)

Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)

Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)



COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Tuesday, October 5, 2010

Date/Time Received: 10/04/2010 09:10

Work Order Number: 10J0038

Received by: Ken Smith

Checklist completed by: 10/4/2010 9:20:00AM

Ken Smith

Reviewed by: 10/5/2010

DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 18.00°C

After-Hour Arrival?

Yes No

Not Present

Shipping container/cooler in good condition?

Yes No

Not Present

Custody seals intact on shipping container/cooler?

Yes No

Not Present

Custody seals intact on sample containers?

Yes No

COC present?

Yes No

COC included sufficient client identification?

Yes No

COC included sufficient sample collector information?

Yes No

COC included a sample description?

Yes No

COC agrees with sample labels?

Yes No

COC identified the appropriate matrix?

Yes No

COC included date of collection?

Yes No

COC included time of collection?

Yes No

COC identified the appropriate number of containers?

Yes No

Samples in proper container/bottle?

Yes No

Sample containers intact?

Yes No

Sufficient sample volume for indicated test?

Yes No

All samples received within holding time?

Yes No

If the samples are preserved, are the preservatives identified?

Yes No

COC included the requested analyses?

Yes No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes No

Samples received on ice?

Yes No

Samples properly preserved?

Yes No

Voa vials for aqueous samples have zero headspace?

Yes No No VOA vials submitted

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10J0038-01	BG-Soil YD01 - 100110	
10J0038-02	BG-Soil YD02 - 100110	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

Wet Chemistry - Quality Control

Work Order: 10J0038

Project: Bautsch - Gray Mine Site

Batch: B006751

pH

Sample ID:	Duplicate (B006751-DUP1)	Method:	SW-846 9045C	Prepped:	10/04/2010	14:00
Source:	10J0041-01			Analyzed:	10/04/2010	14:15
Analyte	Result	Limit	Units	Level	Result	%REC
pH	8.800	2.00	pH Units		8.920	
				Limits	RPD	Limit
					1.35	20
				Qual		



10JU038 · Deborah Griffiths **10/04/21**
LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Gray Mine Site

Chain of Custody Record

Merrillville, IN 46410
Tel: 219-739-8378
Fax: 219-769-1664

Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1139

Microbac

Number

Number

00 rev. 11/04/04



September 30, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0985

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 11 sample(s) on 9/29/2010 9:30:00AM for the analyses presented in the following report as Work Order 10I0985.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

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We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Melissa A. Hamer-Bailey". The signature is fluid and cursive, with some variations in letter height and style.

Melissa A. Hamer-Bailey, CHMM
Regulatory Specialist

**WORK ORDER SAMPLE SUMMARY****Date:** Thursday, September 30, 2010**Client:** LATA-Kemron Remediation LLC - Albuquerque, NM**Project:** Bautsch - Gray Mine Site**Lab Order:** 10I0985

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0985-01	BG-Soil H - 092810		09/28/2010 15:45	9/29/2010 9:30:00AM
10I0985-02	BG-Soil 3F - 092810		09/28/2010 15:50	9/29/2010 9:30:00AM
10I0985-03	BG-Soil 3F - 092810D		09/28/2010 15:50	9/29/2010 9:30:00AM
10I0985-04	BG-Soil 3G - 092810		09/28/2010 15:55	9/29/2010 9:30:00AM
10I0985-05	BG-Soil 3H - 092810		09/28/2010 16:00	9/29/2010 9:30:00AM
10I0985-06	BG-Soil 3I - 092810		09/28/2010 16:05	9/29/2010 9:30:00AM
10I0985-07	BG-Soil 3J - 092810		09/28/2010 16:10	9/29/2010 9:30:00AM
10I0985-08	BG-Soil 3K - 092810		09/28/2010 16:15	9/29/2010 9:30:00AM
10I0985-09	BG-Soil 3L - 092810		09/28/2010 16:20	9/29/2010 9:30:00AM
10I0985-10	BG-Soil 3M - 092810		09/28/2010 16:25	9/29/2010 9:30:00AM
10I0985-11	BG-Soil 3N - 092810		09/28/2010 16:30	9/29/2010 9:30:00AM



CASE NARRATIVE

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0985

The Matrix Spike and Matrix Spike Duplicate performed on the BG-Soil 3F - 092810D sample failed the accuracy criteria for Lead. This bias is due to the high indigenous analyte concentration (relative to the spike amount).



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil H - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-01
Sampled: 09/28/2010 15:45
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B			Analyst: SA		
		Prep Method: SW846 3050B			Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	24		0.51	mg/Kg dry	1	09/29/2010 15:11
Lead	A	480		0.38	mg/Kg dry	1	09/29/2010 15:11
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel		
Percent Solids	A	86		0.10	wt%	1	09/30/2010 5:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3F - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-02
Sampled: 09/28/2010 15:50
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B			Analyst: SA		
		Prep Method: SW846 3050B			Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	28		0.54	mg/Kg dry	1	09/29/2010 15:17
Lead	A	410		0.40	mg/Kg dry	1	09/29/2010 15:17
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel		
Percent Solids	A	86		0.10	wt%	1	09/30/2010 5:30
		Prep Date/Time: 09/29/2010 17:29					



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3F - 092810D
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-03
Sampled: 09/28/2010 15:50
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B			Analyst: SA		
		Prep Method: SW846 3050B			Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	35		0.57	mg/Kg dry	1	09/29/2010 15:22
Lead	A	530		0.43	mg/Kg dry	1	09/29/2010 15:22
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel		
Percent Solids	A	87		0.10	wt%	1	09/30/2010 5:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3G - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-04
Sampled: 09/28/2010 15:55
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	19		0.54	mg/Kg dry	1	09/29/2010 15:39
Lead	A	460		0.41	mg/Kg dry	1	09/29/2010 15:39
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/29/2010 17:29		
Percent Solids	A	92		0.10	wt%	1	09/30/2010 5:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3H - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-05
Sampled: 09/28/2010 16:00
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	13		0.55	mg/Kg dry	1	09/29/2010 15:44
Lead	A	310		0.41	mg/Kg dry	1	09/29/2010 15:44
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/29/2010 17:29		
Percent Solids	A	85		0.10	wt%	1	09/30/2010 5:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3I - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-06
Sampled: 09/28/2010 16:05
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	16		0.54	mg/Kg dry	1	09/29/2010 15:50
Lead	A	440		0.40	mg/Kg dry	1	09/29/2010 15:50
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/29/2010 17:29		
Percent Solids	A	90		0.10	wt%	1	09/30/2010 5:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3J - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-07
Sampled: 09/28/2010 16:10
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B			Analyst: SA		
		Prep Method: SW846 3050B			Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	16		0.58	mg/Kg dry	1	09/30/2010 10:14
Lead	A	400		0.44	mg/Kg dry	1	09/30/2010 10:14
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel		
Percent Solids	A	86		0.10	wt%	1	09/30/2010 5:30
		Prep Date/Time: 09/29/2010 17:29					



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3K - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-08
Sampled: 09/28/2010 16:15
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	15		0.52	mg/Kg dry	1	09/30/2010 10:19
Lead	A	380		0.39	mg/Kg dry	1	09/30/2010 10:19
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/29/2010 17:29		
Percent Solids	A	91		0.10	wt%	1	09/30/2010 5:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3L - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-09
Sampled: 09/28/2010 16:20
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B			Analyst: SA		
		Prep Method: SW846 3050B			Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	12		0.53	mg/Kg dry	1	09/30/2010 10:25
Lead	A	240		0.40	mg/Kg dry	1	09/30/2010 10:25
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel		
Percent Solids	A	94		0.10	wt%	1	09/30/2010 5:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3M - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-10
Sampled: 09/28/2010 16:25
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP						Method: SW-846 6010B	
						Prep Method: SW846 3050B	
Arsenic	A	12		0.53	mg/Kg dry	1	09/30/2010 10:30
Lead	A	230		0.40	mg/Kg dry	1	09/30/2010 10:30
Percent Solids						Method: SM2540B Rev 18	
Percent Solids	A	94		0.10	wt%	1	09/30/2010 5:30
						Analyst:SA	
						Prep Date/Time: 09/29/2010 10:26	
						Analyst:arcel	
						Prep Date/Time: 09/29/2010 17:29	



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3N - 092810
Sample Description:
Matrix: Solid

Work Order/ID: 10I0985-11
Sampled: 09/28/2010 16:30
Received: 09/29/2010 9:30

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/29/2010 10:26		
Arsenic	A	17		0.50	mg/Kg dry	1	09/30/2010 10:36
Lead	A	530		0.38	mg/Kg dry	1	09/30/2010 10:36
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/29/2010 17:29		
Percent Solids	A	93		0.10	wt%	1	09/30/2010 5:30



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)

Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)

Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Thursday, September 30, 2010

Date/Time Received: 09/29/2010 09:30

Work Order Number: 10I0985

Received by: Ken Smith

Checklist completed by: 9/29/2010 9:45:00AM

Ken Smith

Reviewed by: 9/30/2010

MHB

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 15.00°C

After-Hour Arrival?

Yes

No

Not Present

Shipping container/cooler in good condition?

Yes

No

Not Present

Custody seals intact on shipping container/cooler?

Yes

No

Not Present

Custody seals intact on sample containers?

Yes

No

COC present?

Yes

No

COC included sufficient client identification?

Yes

No

COC included sufficient sample collector information?

Yes

No

COC included a sample description?

Yes

No

COC agrees with sample labels?

Yes

No

COC identified the appropriate matrix?

Yes

No

COC included date of collection?

Yes

No

COC included time of collection?

Yes

No

COC identified the appropriate number of containers?

Yes

No

Samples in proper container/bottle?

Yes

No

Sample containers intact?

Yes

No

Sufficient sample volume for indicated test?

Yes

No

All samples received within holding time?

Yes

No

If the samples are preserved, are the preservatives identified?

Yes

No

COC included the requested analyses?

Yes

No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes

No

Samples received on ice?

Yes

No

Samples properly preserved?

Yes

No

Voa vials for aqueous samples have zero headspace?

Yes

No

No VOA vials submitted

Cooler Comments: _____

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.



Sample ID	Client Sample ID	Comments
10I0985-01	BG-Soil H - 092810	
10I0985-02	BG-Soil 3F - 092810	
10I0985-03	BG-Soil 3F - 092810D	
10I0985-04	BG-Soil 3G - 092810	
10I0985-05	BG-Soil 3H - 092810	
10I0985-06	BG-Soil 3I - 092810	
10I0985-07	BG-Soil 3J - 092810	
10I0985-08	BG-Soil 3K - 092810	
10I0985-09	BG-Soil 3L - 092810	
10I0985-10	BG-Soil 3M - 092810	
10I0985-11	BG-Soil 3N - 092810	



September 30, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0930

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 7 sample(s) on 9/28/2010 9:25:00AM for the analyses presented in the following report as Work Order 10I0930.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Melissa A. Hamer-Bailey".

Melissa A. Hamer-Bailey, CHMM
Regulatory Specialist

**WORK ORDER SAMPLE SUMMARY****Date:** Thursday, September 30, 2010**Client:** LATA-Kemron Remediation LLC - Albuquerque, NM**Project:** Bautsch - Gray Mine Site**Lab Order:** 10I0930

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0930-01	BG-Soil 3A - 092710		09/27/2010 14:00	9/28/2010 9:25:00AM
10I0930-02	BG-Soil 3B - 092710		09/27/2010 14:05	9/28/2010 9:25:00AM
10I0930-03	BG-Soil 3C - 092710		09/27/2010 14:10	9/28/2010 9:25:00AM
10I0930-04	BG-Soil 3D - 092710		09/27/2010 14:15	9/28/2010 9:25:00AM
10I0930-05	BG-Soil 3E - 092710		09/27/2010 14:20	9/28/2010 9:25:00AM
10I0930-06	BG-Soil K - 092710		09/27/2010 14:25	9/28/2010 9:25:00AM
10I0930-07	BG-Soil L - 092710		09/27/2010 14:30	9/28/2010 9:25:00AM



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3A - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-01
Sampled: 09/27/2010 14:00
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/28/2010 11:10		
Arsenic	A	22		0.58	mg/Kg dry	1	09/28/2010 15:13
Lead	A	470		0.44	mg/Kg dry	1	09/28/2010 15:13
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/28/2010 17:06		
Percent Solids	A	86		0.10	wt%	1	09/29/2010 8:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3B - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-02
Sampled: 09/27/2010 14:05
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/28/2010 11:10		
Arsenic	A	14		0.58	mg/Kg dry	1	09/28/2010 15:30
Lead	A	390		0.43	mg/Kg dry	1	09/28/2010 15:30
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/28/2010 17:06		
Percent Solids	A	87		0.10	wt%	1	09/29/2010 8:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3C - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-03
Sampled: 09/27/2010 14:10
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/28/2010 11:10		
Arsenic	A	21		0.60	mg/Kg dry	1	09/28/2010 15:35
Lead	A	300		0.45	mg/Kg dry	1	09/28/2010 15:35
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/28/2010 17:06		
Percent Solids	A	82		0.10	wt%	1	09/29/2010 8:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3D - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-04
Sampled: 09/27/2010 14:15
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/28/2010 11:10		
Arsenic	A	22		0.56	mg/Kg dry	1	09/28/2010 16:02
Lead	A	520		0.42	mg/Kg dry	1	09/28/2010 16:02
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/28/2010 17:06		
Percent Solids	A	86		0.10	wt%	1	09/29/2010 8:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 3E - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-05
Sampled: 09/27/2010 14:20
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/28/2010 11:10		
Arsenic	A	16		0.58	mg/Kg dry	1	09/28/2010 16:08
Lead	A	480		0.44	mg/Kg dry	1	09/28/2010 16:08
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel Prep Date/Time: 09/28/2010 17:06		
Percent Solids	A	84		0.10	wt%	1	09/29/2010 8:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil K - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-06
Sampled: 09/27/2010 14:25
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B			Analyst: SA		
		Prep Method: SW846 3050B			Prep Date/Time: 09/28/2010 11:10		
Arsenic	A	69		0.58	mg/Kg dry	1	09/28/2010 16:13
Lead	A	950		0.43	mg/Kg dry	1	09/28/2010 16:13
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel		
Percent Solids	A	87		0.10	wt%	1	09/29/2010 8:30



Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil L - 092710
Sample Description:
Matrix: Solid

Work Order/ID: 10I0930-07
Sampled: 09/27/2010 14:30
Received: 09/28/2010 9:25

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B			Analyst: SA		
		Prep Method: SW846 3050B			Prep Date/Time: 09/28/2010 11:10		
Arsenic	A	36		0.59	mg/Kg dry	1	09/28/2010 16:19
Lead	A	510		0.44	mg/Kg dry	1	09/28/2010 16:19
Percent Solids		Method: SM2540B Rev 18			Analyst: arcel		
Percent Solids	A	85		0.10	wt%	1	09/29/2010 8:30



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

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Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Thursday, September 30, 2010

Date/Time Received: 09/28/2010 09:25

Work Order Number: 10I0930

Received by: Ken Smith

Checklist completed by: 9/28/2010 9:36:00AM

Ken Smith

Reviewed by: 9/28/2010

DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 21.00°C

After-Hour Arrival?

Yes

No

Not Present

Shipping container/cooler in good condition?

Yes

No

Not Present

Custody seals intact on shipping container/cooler?

Yes

No

Not Present

Custody seals intact on sample containers?

Yes

No

COC present?

Yes

No

COC included sufficient client identification?

Yes

No

COC included sufficient sample collector information?

Yes

No

COC included a sample description?

Yes

No

COC agrees with sample labels?

Yes

No

COC identified the appropriate matrix?

Yes

No

COC included date of collection?

Yes

No

COC included time of collection?

Yes

No

COC identified the appropriate number of containers?

Yes

No

Samples in proper container/bottle?

Yes

No

Sample containers intact?

Yes

No

Sufficient sample volume for indicated test?

Yes

No

All samples received within holding time?

Yes

No

If the samples are preserved, are the preservatives identified?

Yes

No

COC included the requested analyses?

Yes

No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes

No

Samples received on ice?

Yes

No

Samples properly preserved?

Yes

No

Voa vials for aqueous samples have zero headspace?

Yes

No

No VOA vials submitted

Cooler Comments: _____

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0930-01	BG-Soil 3A - 092710	
10I0930-02	BG-Soil 3B - 092710	
10I0930-03	BG-Soil 3C - 092710	
10I0930-04	BG-Soil 3D - 092710	
10I0930-05	BG-Soil 3E - 092710	
10I0930-06	BG-Soil K - 092710	
10I0930-07	BG-Soil L - 092710	



Revised
9/30/2010

September 30, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0879

Re: Bautsch - Gray Mine Site

Dear Tom Urmon:

Microbac Laboratories, Inc. - Chicagoland Division received 10 sample(s) on 9/27/2010 9:20:00AM for the analyses presented in the following report as Work Order 10I0879.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted. Note, this report has been revised to report by dry weight.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Melissa A. Hamer-Bailey". The signature is fluid and cursive, with some variations in letter height and style.

Melissa A. Hamer-Bailey, CHMM
Regulatory Specialist



Revised
9/30/2010

WORK ORDER SAMPLE SUMMARY

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0879

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0879-01	BG-Soil 2A - 092310		09/23/2010 16:05	9/27/2010 9:20:00AM
10I0879-02	BG-Soil 2B - 092310		09/23/2010 16:10	9/27/2010 9:20:00AM
10I0879-03	BG-Soil 2C - 092310		09/23/2010 16:15	9/27/2010 9:20:00AM
10I0879-04	BG-Soil 2D - 092310		09/23/2010 16:20	9/27/2010 9:20:00AM
10I0879-05	BG-Soil E - 092310		09/23/2010 16:25	9/27/2010 9:20:00AM
10I0879-06	BG-Soil F - 092310		09/23/2010 16:30	9/27/2010 9:20:00AM
10I0879-07	BG-Soil G - 092310		09/23/2010 16:35	9/27/2010 9:20:00AM
10I0879-08	BG-Soil I - 092310		09/23/2010 16:40	9/27/2010 9:20:00AM
10I0879-09	BG-Soil J - 092310		09/23/2010 16:45	9/27/2010 9:20:00AM
10I0879-10	BG-Soil J - 092310D		09/23/2010 16:45	9/27/2010 9:20:00AM



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2A - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-01
Sampled: 09/23/2010 16:05
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/27/2010 11:02		
Arsenic	A	11		0.63	mg/Kg dry	1	09/27/2010 16:02
Lead	A	78		0.47	mg/Kg dry	1	09/27/2010 16:02
Percent Solids		Method: SM2540B Rev 18			Analyst: CSTAS Prep Date/Time: 09/27/2010 12:37		
Percent Solids	A	79		0.10	wt%	1	09/28/2010 7:30



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2B - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-02
Sampled: 09/23/2010 16:10
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 6010B							
Prep Method: SW846 3050B							
Total Metals by ICP							Analyst: SA
Arsenic	A	14		0.63	mg/Kg dry	1	09/27/2010 16:08
Lead	A	150		0.47	mg/Kg dry	1	09/27/2010 16:08
Method: SM2540B Rev 18							
Percent Solids							
Percent Solids	A	79		0.10	wt%	1	09/28/2010 7:30
Prep Date/Time: 09/27/2010 11:02							
Prep Date/Time: 09/27/2010 12:37							



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2C - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-03
Sampled: 09/23/2010 16:15
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/27/2010 11:02		
Arsenic	A	11		0.56	mg/Kg dry	1	09/27/2010 16:13
Lead	A	110		0.42	mg/Kg dry	1	09/27/2010 16:13
Percent Solids		Method: SM2540B Rev 18			Analyst: CSTAS Prep Date/Time: 09/27/2010 12:37		
Percent Solids	A	89		0.10	wt%	1	09/28/2010 7:30



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil 2D - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-04
Sampled: 09/23/2010 16:20
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/27/2010 11:02		
Arsenic	A	12		0.53	mg/Kg dry	1	09/27/2010 16:19
Lead	A	800		0.40	mg/Kg dry	1	09/27/2010 16:19
Percent Solids		Method: SM2540B Rev 18			Analyst: CSTAS Prep Date/Time: 09/27/2010 12:37		
Percent Solids	A	95		0.10	wt%	1	09/28/2010 7:30



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil E - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-05
Sampled: 09/23/2010 16:25
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/27/2010 11:02		
Arsenic	A	18		0.61	mg/Kg dry	1	09/27/2010 16:24
Lead	A	320		0.46	mg/Kg dry	1	09/27/2010 16:24
Percent Solids		Method: SM2540B Rev 18			Analyst: CSTAS Prep Date/Time: 09/27/2010 12:37		
Percent Solids	A	81		0.10	wt%	1	09/28/2010 7:30



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil F - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-06
Sampled: 09/23/2010 16:30
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/27/2010 11:02		
Arsenic	A	14		0.55	mg/Kg dry	1	09/27/2010 16:30
Lead	A	190		0.41	mg/Kg dry	1	09/27/2010 16:30
Percent Solids		Method: SM2540B Rev 18			Analyst: CSTAS Prep Date/Time: 09/27/2010 12:37		
Percent Solids	A	90		0.10	wt%	1	09/28/2010 7:30



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil G - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-07
Sampled: 09/23/2010 16:35
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 6010B							
Prep Method: SW846 3050B							
Total Metals by ICP							Analyst: SA
Arsenic	A	22		0.56	mg/Kg dry	1	09/28/2010 10:50
Lead	A	320		0.42	mg/Kg dry	1	09/27/2010 16:57
Lead	A	300		0.42	mg/Kg dry	1	09/28/2010 10:50
Method: SM2540B Rev 18							
Percent Solids							Analyst: CSTAS
Percent Solids	A	85		0.10	wt%	1	09/27/2010 12:37
Prep Date/Time: 09/27/2010 11:02							
Prep Date/Time: 09/27/2010 12:37							



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil I - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-08
Sampled: 09/23/2010 16:40
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 6010B							
Prep Method: SW846 3050B							
Total Metals by ICP							Analyst: SA
Arsenic	A	20		0.55	mg/Kg dry	1	09/28/2010 10:55
Lead	A	230		0.42	mg/Kg dry	1	09/28/2010 10:55
Lead	A	240		0.42	mg/Kg dry	1	09/27/2010 17:02
Method: SM2540B Rev 18							
Percent Solids							Analyst: CSTAS
Percent Solids	A	90		0.10	wt%	1	09/28/2010 7:30
Prep Date/Time: 09/27/2010 11:02							
Prep Date/Time: 09/27/2010 12:37							



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil J - 092310
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-09
Sampled: 09/23/2010 16:45
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 6010B							
Prep Method: SW846 3050B							
Total Metals by ICP							Analyst: SA
Arsenic	A	16		0.53	mg/Kg dry	1	09/28/2010 11:01
Lead	A	190		0.40	mg/Kg dry	1	09/28/2010 11:01
Lead	A	190		0.40	mg/Kg dry	1	09/27/2010 17:08
Method: SM2540B Rev 18							
Percent Solids							Analyst: CSTAS
Percent Solids	A	91		0.10	wt%	1	09/28/2010 7:30
Prep Date/Time: 09/27/2010 11:02							
Prep Date/Time: 09/27/2010 12:37							



Revised
9/30/2010

Analytical Results

Date: Thursday, September 30, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil J - 092310D
Sample Description:
Matrix: Solid

Work Order/ID: 10I0879-10
Sampled: 09/23/2010 16:45
Received: 09/27/2010 9:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 6010B							
Prep Method: SW846 3050B							
Total Metals by ICP							Analyst: SA
Arsenic	A	16		0.55	mg/Kg dry	1	09/28/2010 11:06
Lead	A	160		0.41	mg/Kg dry	1	09/28/2010 11:06
Lead	A	170		0.41	mg/Kg dry	1	09/27/2010 17:13
Method: SM2540B Rev 18							
Percent Solids							Analyst: CSTAS
Percent Solids	A	91		0.10	wt%	1	09/28/2010 7:30
Prep Date/Time: 09/27/2010 11:02							
Prep Date/Time: 09/27/2010 12:37							



Revised
9/30/2010

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)

Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)

Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)



Revised
9/30/2010

COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Thursday, September 30, 2010

Date/Time Received: 09/27/2010 09:20

Work Order Number: 10I0879

Received by: Ken Smith

Checklist completed by: 9/27/2010 9:30:00AM

Ken Smith

Reviewed by: 9/27/2010

DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 19.00°C

After-Hour Arrival?

Yes

No

Not Present

Shipping container/cooler in good condition?

Yes

No

Not Present

Custody seals intact on shipping container/cooler?

Yes

No

Custody seals intact on sample containers?

Yes

No

COC present?

Yes

No

COC included sufficient client identification?

Yes

No

COC included sufficient sample collector information?

Yes

No

COC included a sample description?

Yes

No

COC agrees with sample labels?

Yes

No

COC identified the appropriate matrix?

Yes

No

COC included date of collection?

Yes

No

COC included time of collection?

Yes

No

COC identified the appropriate number of containers?

Yes

No

Samples in proper container/bottle?

Yes

No

Sample containers intact?

Yes

No

Sufficient sample volume for indicated test?

Yes

No

All samples received within holding time?

Yes

No

If the samples are preserved, are the preservatives identified?

Yes

No

CO included the requested analyses?

Yes

No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes

No

Samples received on ice?

Yes

No

Samples properly preserved?

Yes

No

Voa vials for aqueous samples have zero headspace?

Yes

No

No VOA vials submitted

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0879-01	BG-Soil 2A - 092310	
10I0879-02	BG-Soil 2B - 092310	
10I0879-03	BG-Soil 2C - 092310	
10I0879-04	BG-Soil 2D - 092310	
10I0879-05	BG-Soil E - 092310	
10I0879-06	BG-Soil F - 092310	
10I0879-07	BG-Soil G - 092310	
10I0879-08	BG-Soil I - 092310	
10I0879-09	BG-Soil J - 092310	
10I0879-10	BG-Soil J - 092310D	



Revised
9/27/2010

September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0759

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 4 sample(s) on 9/22/2010 10:00:00AM for the analyses presented in the following report as Work Order 10I0759.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deb Griffiths". The signature is somewhat stylized and cursive.

Deborah Griffiths
Senior Project Manager



Revised
9/27/2010

WORK ORDER SAMPLE SUMMARY

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

Project: Bautsch - Gray Mine Site

Lab Order: 10I0759

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0759-01	BG-Soil A-092110		09/21/2010 14:30	9/22/2010 10:00:00AM
10I0759-02	BG-Soil B-092110		09/21/2010 14:35	9/22/2010 10:00:00AM
10I0759-03	BG-Soil C-092110		09/21/2010 14:40	9/22/2010 10:00:00AM
10I0759-04	BG-Soil D-092110		09/21/2010 14:45	9/22/2010 10:00:00AM



Revised
9/27/2010

CASE NARRATIVE

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0759

B - the Method Blank associated with these samples contained Lead at a level above the reporting limit. This is considered insignificant, as the concentration in the sample was below more than ten-times that measured in the blank.

This report was revised to correct the sample ID for 10I0759-04.



Revised
9/27/2010

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil A-092110 Work Order/ID: 10I0759-01
Sample Description:
Matrix: Solid Sampled: 09/21/2010 14:30
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 6010B							
Prep Method: SW846 3050B							
Total Metals by ICP							Analyst: SA
Arsenic	A	9.2	0.47		mg/Kg	1	09/23/2010 10:58
Lead	A	110	0.35	B	mg/Kg	1	09/23/2010 10:58
Method: SM2540B Rev 18							
Percent Solids							
Percent Solids	A	89	0.10		wt%	1	09/23/2010 6:30
Prep Date/Time: 09/23/2010 07:16							
Prep Date/Time: 09/22/2010 13:41							



Revised
9/27/2010

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil B-092110 Work Order/ID: 10I0759-02
Sample Description:
Matrix: Solid Sampled: 09/21/2010 14:35
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 6010B							
Prep Method: SW846 3050B							
Total Metals by ICP							Analyst: SA
Arsenic	A	12		0.50	mg/Kg	1	09/23/2010 11:04
Lead	A	130		0.38	B mg/Kg	1	09/23/2010 11:04
Method: SM2540B Rev 18							
Percent Solids							
Percent Solids	A	87		0.10	wt%	1	09/23/2010 6:30
Prep Date/Time: 09/23/2010 07:16							
Prep Date/Time: 09/22/2010 13:41							



Revised
9/27/2010

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil C-092110
Sample Description:
Matrix: Solid

Work Order/ID: 10I0759-03
Sampled: 09/21/2010 14:40
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/23/2010 07:16		
Arsenic	A	10	0.50	mg/Kg	1	09/23/2010 11:09	
Lead	A	77	0.37	B mg/Kg	1	09/23/2010 11:09	
Percent Solids		Method: SM2540B Rev 18			Analyst: cstas Prep Date/Time: 09/22/2010 13:41		
Percent Solids	A	90	0.10	wt%	1	09/23/2010 6:30	



Revised
9/27/2010

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG-Soil D-092110
Sample Description:
Matrix: Solid

Work Order/ID: 10I0759-04
Sampled: 09/21/2010 14:45
Received: 09/22/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Metals by ICP		Method: SW-846 6010B Prep Method: SW846 3050B			Analyst: SA Prep Date/Time: 09/23/2010 07:16		
Arsenic	A	13	0.48	mg/Kg	1	09/23/2010 11:15	
Lead	A	170	0.36	B mg/Kg	1	09/23/2010 11:15	
Percent Solids		Method: SM2540B Rev 18			Analyst: cstas Prep Date/Time: 09/22/2010 13:41		
Percent Solids	A	92	0.10	wt%	1	09/23/2010 6:30	



Revised
9/27/2010

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

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Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)



Revised
9/27/2010

COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Monday, September 27, 2010

Date/Time Received: 09/22/2010 10:00

Work Order Number: 10I0759

Received by: Ken Smith

Checklist completed by: 9/22/2010 10:17:00AM

Ken Smith

Reviewed by: 9/22/2010

DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 12.00°C

After-Hour Arrival?

Yes

No

Not Present

Shipping container/cooler in good condition?

Yes

No

Not Present

Custody seals intact on shipping container/cooler?

Yes

No

Custody seals intact on sample containers?

Yes

No

COC present?

Yes

No

COC included sufficient client identification?

Yes

No

COC included sufficient sample collector information?

Yes

No

COC included a sample description?

Yes

No

COC agrees with sample labels?

Yes

No

COC identified the appropriate matrix?

Yes

No

COC included date of collection?

Yes

No

COC included time of collection?

Yes

No

COC identified the appropriate number of containers?

Yes

No

Samples in proper container/bottle?

Yes

No

Sample containers intact?

Yes

No

Sufficient sample volume for indicated test?

Yes

No

All samples received within holding time?

Yes

No

If the samples are preserved, are the preservatives identified?

Yes

No

COC included the requested analyses?

Yes

No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes

No

Samples received on ice?

Yes

No

Samples properly preserved?

Yes

No

Voa vials for aqueous samples have zero headspace?

Yes

No

No VOA vials submitted

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0759-01	BG-Soil A-092110	
10I0759-02	BG-Soil B-092110	
10I0759-03	BG-Soil C-092110	
10I0759-04	BG-Soil D-092110	



Revised
9/27/2010

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0759
Project: Bautsch - Gray Mine Site
Batch: B006398 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID: Blank (B006398-BLK1)		Method: SW-846 6010B			Prepped: 09/23/2010 07:16					
Source:					Analyzed: 09/23/2010 10:44					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	ND	0.50	mg/Kg							
Lead	0.40	0.38	mg/Kg							
Sample ID: LCS (B006398-BS1)		Method: SW-846 6010B			Prepped: 09/23/2010 07:16					
Source:					Analyzed: 09/23/2010 10:50					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	228	1.0	mg/Kg	238.0		95.7	65.1-118		20	
Lead	140	0.75	mg/Kg	154.0		90.8	62.9-110		20	
Sample ID: Matrix Spike (B006398-MS1)		Method: SW-846 6010B			Prepped: 09/23/2010 07:16					
Source: 10I0759-04					Analyzed: 09/23/2010 11:20					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	100	0.47	mg/Kg	93.46	12.6	93.9	75-125		20	
Lead	269	0.35	mg/Kg	93.46	173	102	75-125		20	
Sample ID: Matrix Spike Dup (B006398-MSD1)		Method: SW-846 6010B			Prepped: 09/23/2010 07:16					
Source: 10I0759-04					Analyzed: 09/23/2010 11:26					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	104	0.47	mg/Kg	94.34	12.6	96.6	75-125	3.29	20	
Lead	318	0.35	mg/Kg	94.34	173	154	75-125	16.8	20	S



Revised
9/27/2010

Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Wet Chemistry - Quality Control**
Work Order: 10I0759
Project: Bautsch - Gray Mine Site
Batch: B006372

Percent Solids

Sample ID:	Duplicate (B006372-DUP1)	Method:	SM2540B Rev 18			Prepped:	09/22/2010	13:41
Source:	10I0753-01					Analyzed:	09/23/2010	06:30
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD
Percent Solids	88.6	0.10	wt%		87.6		1.15	20

ATTACHMENT C
BACKFILL LABORATORY RESULTS



October 4, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10J0003

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 10/1/2010 8:54:00AM for the analyses presented in the following report as Work Order 10J0003.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deb Griffiths".

Deborah Griffiths
Senior Project Manager

**WORK ORDER SAMPLE SUMMARY****Date:***Monday, October 4, 2010***Client:** LATA-Kemron Remediation LLC - Albuquerque, NM**Project:** Bautsch - Gray Mine Site**Lab Order:** 10J0003

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10J0003-01	BH1		09/16/2010 12:30	10/1/2010 8:54:00AM
10J0003-02	BG Sproule - 092210		09/22/2010 15:30	10/1/2010 8:54:00AM



Analytical Results

Date: Monday, October 4, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10J0003-01
Sampled: 09/16/2010 12:30
Received: 10/01/2010 8:54

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 9045C						Analyst: CS	
pH						Prep Date/Time: 10/01/2010 15:50	
pH	A	8.67	2.00		pH Units	1	10/01/2010 16:10



Analytical Results

Date: Monday, October 4, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10J0003-02
Sampled: 09/22/2010 15:30
Received: 10/01/2010 8:54

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 9045C						Analyst: CS	
Prep Date/Time: 10/01/2010 15:50							
pH	A	6.45	2.00	pH Units	1	10/01/2010 16:10	

**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)

Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)

Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)



COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Monday, October 4, 2010

Date/Time Received: 10/01/2010 08:54

Work Order Number: 10J0003

Received by: Dave Bryant

Checklist completed by: 10/1/2010 8:54:00AM

Reviewed by: 10/1/2010 DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 4.00°C

After-Hour Arrival?

Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	
Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Not Present

- Shipping container/cooler in good condition?
Custody seals intact on shipping container/cooler?
Custody seals intact on sample containers?
COC present?
COC included sufficient client identification?
COC included sufficient sample collector information?
COC included a sample description?
COC agrees with sample labels?
COC identified the appropriate matrix?
COC included date of collection?
COC included time of collection?
COC identified the appropriate number of containers?
Samples in proper container/bottle?
Sample containers intact?
Sufficient sample volume for indicated test?
All samples received within holding time?
If the samples are preserved, are the preservatives identified?
COC included the requested analyses?

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Samples received on ice?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Samples properly preserved?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Voa vials for aqueous samples have zero headspace?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/> No VOA vials submitted <input checked="" type="checkbox"/>

Cooler Comments: Client requested re-log

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10J0003-01	BH1	
10J0003-02	BG Sproule - 092210	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Wet Chemistry - Quality Control**
Work Order: 10J0003
Project: Bautsch - Gray Mine Site
Batch: B006713

pH

Sample ID:	Duplicate (B006713-DUP1)	Method:	SW-846 9045C			Prepped:	10/01/2010	15:50
Source:	10I0637-01					Analyzed:	10/01/2010	16:10
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD
pH	8.610	2.00	pH Units		9.020		4.65	20

Microbac

10J0003 Deborah Griffiths
LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Grav Mine Site

Chain of Custody Record

Samples 250 West 84th Drive
Submitted to: Merrillville, IN 46410
Tel: 219-799-8378
Fax: 219-769-1664

Number 98239

Instructions on back

Address 2424 Louisiana Blvd. NE Ste 400 Location Galena, IL
PO #

Tel: 317-872-1375
Fax: 317-872-1379

Comments

Compliance Monitoring? Yes(1) No
(1) Agency/Program

Telephone # 859 621-7646

Employed by (PRINT) Tom Urnson Sampler Signature _____

nd Report via Mail Telephone Fax (fax #)

Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Date 10/01/2010

Time 10:30 AM

Report Type Results Only
 Level III CLP-like
 Level IV CLP-like
 EDD

Sampler Phone # tomurnson@gmail.com

e-mail (address)

For Lab Use Only

10J0003

10J0632

01

02

10J00



September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0805

Re: Bautsch - Gray Mine Site

Dear Vernon Giles:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 9/23/2010 9:45:00AM for the analyses presented in the following report as Work Order 10I0805.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

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We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deb Griffiths".

Deborah Griffiths
Senior Project Manager

**WORK ORDER SAMPLE SUMMARY****Date:** Monday, September 27, 2010**Client:** LATA-Kemron Remediation LLC - Albuquerque, NM**Project:** Bautsch - Gray Mine Site**Lab Order:** 10I0805

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0805-01	BG Sproule - 092210		09/22/2010 15:30	9/23/2010 9:45:00AM

Analytical Results

Date: Monday, September 27, 2010

Client:	LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project:	Bautsch - Gray Mine Site
Client Sample ID:	BG Sproule - 092210
Sample Description:	
Matrix:	Solid

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8082							
Prep Method: SW846 3550							
Analyst:jw							
Polychlorinated Biphenyls							Prep Date/Time: 09/23/2010 11:09
Aroclor 1016	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1221	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1232	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1242	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1248	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1254	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1260	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1262	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Aroclor 1268	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
Total PCB's	A	ND	41		µg/Kg dry	1	09/23/2010 20:41
<i>Surr: Decachlorobiphenyl</i>	S	90.00		38-128	%REC	1	09/23/2010 20:41
<i>Surr: Tetrachloro-m-xylene</i>	S	75.00		40-130	%REC	1	09/23/2010 20:41

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Analyst: cr							
Semivolatile Organic Compounds							Prep Date/Time: 09/23/2010 12:00
1,2,4-Trichlorobenzene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
1,2-Dichlorobenzene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
1,2-Diphenyl-hydrazine	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
1,3-Dichlorobenzene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
1,4-Dichlorobenzene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,2'-oxybis(1-chloropropane)	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,4,5-Trichlorophenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,4,6-Trichlorophenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,4-Dichlorophenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,4-Dimethylphenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,4-Dinitrophenol	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
2,4-Dinitrotoluene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,6-Dichlorophenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2,6-Dinitrotoluene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2-Chloronaphthalene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2-Chlorophenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2-Methyl-4,6-dinitrophenol	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
2-Methylnaphthalene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2-Methylphenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
2-Nitroaniline	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
2-Nitrophenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
3,3'-Dichlorobenzidine	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
3,4-Benzofluoranthene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
3/4-Methylphenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
3-Nitroaniline	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
4,6-Dinitro-2-methylphenol	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
4,6-Dinitro-o-cresol	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59

5713 W. 85th Street, Indianapolis, IN 46278-1672 TEL.800.466.5577 TEL.317.872.1375 FAX.317.872.1379

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Semivolatile Organic Compounds			Method: SW-846 8270C				Analyst: cr
			Prep Method: SW846 3550A				Prep Date/Time: 09/23/2010 12:00
4-Bromophenyl phenyl ether	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
4-Chloro-3-methylphenol	A	ND	830		µg/Kg dry	1	09/23/2010 13:59
4-Chloroaniline	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
4-Chlorophenyl phenyl ether	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
4-Nitroaniline	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
4-Nitrophenol	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
Acenaphthene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Acenaphthylene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Acetophenone	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Aniline	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Anthracene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Benzidine	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
Benzo[a]anthracene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[a]pyrene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[b]fluoranthene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[g,h,i]perylene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Benzo[k]fluoranthene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Benzoic acid	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
Benzyl alcohol	A	ND	830		µg/Kg dry	1	09/23/2010 13:59
beta-Chloronaphthalene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Bis(2-chloroethoxy)methane	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Bis(2-chloroethyl)ether	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Bis(2-ethylhexyl)phthalate	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Butyl benzyl phthalate	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Carbazole	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Chrysene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Di(2-ethylhexyl) phthalate	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Dibenz[a,h]anthracene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Dibenzofuran	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Diethyl phthalate	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Dimethyl phthalate	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Di-n-butyl phthalate	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Di-n-octyl phthalate	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Fluoranthene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Fluorene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Hexachlorobenzene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Hexachlorobutadiene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Hexachlorocyclopentadiene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Hexachloroethane	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Indeno[1,2,3cd]pyrene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Isophorone	A	ND	410		µg/Kg dry	1	09/23/2010 13:59

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Prep Date/Time: 09/23/2010 12:00							
Semivolatile Organic Compounds							Analyst: cr
m-Dichlorobenzene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Naphthalene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Nitrobenzene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
N-Nitrosodimethylamine	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
N-Nitrosodi-n-propylamine	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
N-Nitrosodiphenylamine	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
o-Chlorophenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
p-Chloroaniline	A	ND	830		µg/Kg dry	1	09/23/2010 13:59
p-Chloro-m-cresol	A	ND	830		µg/Kg dry	1	09/23/2010 13:59
p-Cresol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Pentachlorophenol	A	ND	2000		µg/Kg dry	1	09/23/2010 13:59
Phenanthrene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Phenol	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Pyrene	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Pyridine	A	ND	410		µg/Kg dry	1	09/23/2010 13:59
Total Cresol	M	ND	410		µg/Kg dry	1	09/23/2010 13:59
<i>Surr: 2,4,6-Tribromophenol</i>	S	79.50	13.9-145		%REC	1	09/23/2010 13:59
<i>Surr: 2-Fluorobiphenyl</i>	S	78.90	28.1-110		%REC	1	09/23/2010 13:59
<i>Surr: 2-Fluorophenol</i>	S	69.30	24.5-110		%REC	1	09/23/2010 13:59
<i>Surr: Nitrobenzene-d5</i>	S	71.90	33.6-110		%REC	1	09/23/2010 13:59
<i>Surr: Phenol-d5</i>	S	76.20	29.6-110		%REC	1	09/23/2010 13:59
<i>Surr: Terphenyl-d14</i>	S	82.90	35.8-121		%REC	1	09/23/2010 13:59

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B							
Analyst: JLN							
Prep Date/Time: 09/24/2010 08:31							
Volatile Organic Compounds, 5035 prep, SB preserve							
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg dry	1	09/24/2010 12:40
1,1,1-Trichloroethane	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1,2,2-Tetrachloroethane	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1,2-Trichloroethane	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1-Dichloroethane	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
1,1-Dichloroethene	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
1,2-Dichloroethane	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
1,2-Dichloropropane	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
2-Butanone	A	75	11		µg/Kg dry	1	09/24/2010 12:40
2-Hexanone	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
4-Methyl-2-Pentanone	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
Acetone	A	840	56	E	µg/Kg dry	1	09/24/2010 12:40
Acrolein	A	ND	110		µg/Kg dry	1	09/24/2010 12:40
Acrylonitrile	A	ND	110		µg/Kg dry	1	09/24/2010 12:40
Benzene	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
Bromodichloromethane	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40
Bromoform	A	ND	5.6		µg/Kg dry	1	09/24/2010 12:40

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Analytical Results

Date: Monday, September 27, 2010

Client:	LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project:	Bautsch - Gray Mine Site
Client Sample ID:	BG Sproule - 092210
Sample Description:	
Matrix:	Solid

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B						Analyst: JLN	

Volatile Organic Compounds, 5035 prep, SB preserve

Prep Date/Time: 09/24/2010 08:31

Bromomethane	A	ND	11	µg/Kg dry	1	09/24/2010 12:40
Carbon Disulfide	A	ND	11	µg/Kg dry	1	09/24/2010 12:40
Carbon tetrachloride	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Chlorobenzene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Chloroethane	A	ND	11	µg/Kg dry	1	09/24/2010 12:40
Chloroform	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Chloromethane	A	ND	11	µg/Kg dry	1	09/24/2010 12:40
cis-1,2-Dichloroethene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
cis-1,3-Dichloropropene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Dibromochloromethane	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Ethylbenzene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
m,p-Xylene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Methylene chloride	A	ND	22	µg/Kg dry	1	09/24/2010 12:40
Methyl-t-Butyl Ether	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
o-Xylene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Styrene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Tetrachloroethene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Toluene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
trans-1,2-Dichloroethene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
trans-1,3-Dichloropropene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Trichloroethene	A	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Trichlorofluoromethane	A	ND	11	µg/Kg dry	1	09/24/2010 12:40
Vinyl Acetate	A	ND	11	µg/Kg dry	1	09/24/2010 12:40
Vinyl chloride	A	ND	11	µg/Kg dry	1	09/24/2010 12:40
Total 1,2-Dichloroethene	M	ND	11	µg/Kg dry	1	09/24/2010 12:40
Total Xylenes	M	ND	5.6	µg/Kg dry	1	09/24/2010 12:40
Surr: 1,2-Dichloroethane-d4	S	106.00	51.7-162	%REC	1	09/24/2010 12:40
Surr: 4-Bromofluorobenzene	S	93.80	57.4-135	%REC	1	09/24/2010 12:40
Surr: Dibromofluoromethane	S	102.00	63.5-139	%REC	1	09/24/2010 12:40
Surr: Toluene-d8	S	111.00	66.6-143	%REC	1	09/24/2010 12:40

Method: SW-846 6010B

Analyst: SA

Total Metals by ICP

Prep Method: SW846 3050B

Prep Date/Time: 09/24/2010 07:55

Arsenic	A	6.1	0.63	mg/Kg dry	1	09/25/2010 1:25
Barium	A	150	0.13	mg/Kg dry	1	09/25/2010 1:25
Cadmium	A	0.20	0.13	mg/Kg dry	1	09/25/2010 1:25
Chromium	A	13	0.19	mg/Kg dry	1	09/25/2010 1:25
Lead	A	17	0.47	mg/Kg dry	1	09/25/2010 1:25
Selenium	A	ND	1.9	mg/Kg dry	1	09/25/2010 1:25
Silver	A	ND	0.63	mg/Kg dry	1	09/25/2010 1:25

Method: SW-846 7471A

Analyst: SA

Total Mercury by CVAA

Prep Method: SW-846 7471

Prep Date/Time: 09/24/2010 08:20

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Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BG Sproule - 092210
Sample Description:
Matrix: Solid

Work Order/ID: 10I0805-01
Sampled: 09/22/2010 15:30
Received: 09/23/2010 9:45

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: SW-846 7471A					Analyst: SA
Mercury	A	ND	0.041	mg/Kg dry	1	09/24/2010 14:01	Prep Date/Time: 09/24/2010 08:20
Percent Solids		Method: SM2540B Rev 18					Analyst: GOEHL
Percent Solids	A	80	0.10	wt%	1	09/27/2010 8:00	Prep Date/Time: 09/24/2010 13:00

**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)

Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)

Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)



COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Monday, September 27, 2010

Date/Time Received: 09/23/2010 09:45

Work Order Number: 10I0805

Received by: Ken Smith

Checklist completed by: 9/23/2010 9:58:00AM

Reviewed by: 9/23/2010 DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 21.00°C

After-Hour Arrival?

Yes No

Not Present

Shipping container/cooler in good condition?

Yes No

Not Present

Custody seals intact on shipping container/cooler?

Yes No

Not Present

Custody seals intact on sample containers?

Yes No

Not Present

COC present?

Yes No

COC included sufficient client identification?

Yes No

COC included sufficient sample collector information?

Yes No

COC included a sample description?

Yes No

COC agrees with sample labels?

Yes No

COC identified the appropriate matrix?

Yes No

COC included date of collection?

Yes No

COC included time of collection?

Yes No

COC identified the appropriate number of containers?

Yes No

Samples in proper container/bottle?

Yes No

Sample containers intact?

Yes No

Sufficient sample volume for indicated test?

Yes No

All samples received within holding time?

Yes No

If the samples are preserved, are the preservatives identified?

Yes No

COC included the requested analyses?

Yes No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes No

Samples received on ice?

Yes No

Samples properly preserved?

Yes No

Voa vials for aqueous samples have zero headspace?

Yes No

No VOA vials submitted

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0805-01	BG Sproule - 092210	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GC Semivolatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006403 Prep: SW846 3550

Polychlorinated Biphenyls

Sample ID:	Blank (B006403-BLK2)		Method:		SW-846 8082		Prepped:	09/23/2010 11:09		
Source:							Analyzed:	09/23/2010 18:35		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	ND	33	µg/Kg wet							
Aroclor 1221	ND	33	µg/Kg wet							
Aroclor 1232	ND	33	µg/Kg wet							
Aroclor 1242	ND	33	µg/Kg wet							
Aroclor 1248	ND	33	µg/Kg wet							
Aroclor 1254	ND	33	µg/Kg wet							
Aroclor 1260	ND	33	µg/Kg wet							
Aroclor 1262	ND	33	µg/Kg wet							
Aroclor 1268	ND	33	µg/Kg wet							
Total PCB's	ND	33	µg/Kg wet							
Surrogate: Decachlorobiphenyl	7.3		µg/Kg wet	6.667		110	38-128			
Surrogate: Tetrachloro-m-xylene	6.3		µg/Kg wet	6.667		95.0	40-130			

Sample ID:	LCS (B006403-BS2)		Method:		SW-846 8082		Prepped:	09/23/2010 11:09		
Source:							Analyzed:	09/23/2010 19:00		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	169	33	µg/Kg wet	166.7		102	30.2-145		30	
Aroclor 1260	165	33	µg/Kg wet	166.7		99.2	40.1-138		30	
Surrogate: Decachlorobiphenyl	7.0		µg/Kg wet	6.667		105	38-128			
Surrogate: Tetrachloro-m-xylene	6.0		µg/Kg wet	6.667		90.0	40-130			

Sample ID:	Matrix Spike (B006403-MS2)		Method:		SW-846 8082		Prepped:	09/23/2010 11:09		
Source:	10I0753-01						Analyzed:	09/23/2010 19:50		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	189	38	µg/Kg dry	190.4	ND	99.4	27.2-130		40	
Aroclor 1260	178	38	µg/Kg dry	190.4	ND	93.7	23.8-131		40	
Surrogate: Decachlorobiphenyl	7.2		µg/Kg dry	7.615		95.0	38-128			
Surrogate: Tetrachloro-m-xylene	6.9		µg/Kg dry	7.615		90.0	40-130			

Sample ID:	Matrix Spike Dup (B006403-MSD2)		Method:		SW-846 8082		Prepped:	09/23/2010 11:09		
Source:	10I0753-01						Analyzed:	09/23/2010 20:15		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	192	38	µg/Kg dry	190.4	ND	101	27.2-130	1.72	40	
Aroclor 1260	178	38	µg/Kg dry	190.4	ND	93.6	23.8-131	0.128	40	
Surrogate: Decachlorobiphenyl	7.6		µg/Kg dry	7.615		100	38-128			
Surrogate: Tetrachloro-m-xylene	6.9		µg/Kg dry	7.615		90.0	40-130			



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Semivolatile Organic Compounds

Sample ID:	Blank (B006388-BLK1)	Method: SW-846 8270C			Prepped: 09/23/2010 07:21		Analyzed: 09/23/2010 10:25				
Source:		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene		ND	330	µg/Kg wet							
1,2-Dichlorobenzene		ND	330	µg/Kg wet							
1,2-Diphenyl-hydrazine		ND	330	µg/Kg wet							
1,3-Dichlorobenzene		ND	330	µg/Kg wet							
1,4-Dichlorobenzene		ND	330	µg/Kg wet							
2,2'-oxybis(1-chloropropane)		ND	330	µg/Kg wet							
2,4,5-Trichlorophenol		ND	330	µg/Kg wet							
2,4,6-Trichlorophenol		ND	330	µg/Kg wet							
2,4-Dichlorophenol		ND	330	µg/Kg wet							
2,4-Dimethylphenol		ND	330	µg/Kg wet							
2,4-Dinitrophenol		ND	1600	µg/Kg wet							
2,4-Dinitrotoluene		ND	330	µg/Kg wet							
2,6-Dichlorophenol		ND	330	µg/Kg wet							
2,6-Dinitrotoluene		ND	330	µg/Kg wet							
2-Chloronaphthalene		ND	330	µg/Kg wet							
2-Chlorophenol		ND	330	µg/Kg wet							
2-Methyl-4,6-dinitrophenol		ND	1600	µg/Kg wet							
2-Methylnaphthalene		ND	330	µg/Kg wet							
2-Methylphenol		ND	330	µg/Kg wet							
2-Nitroaniline		ND	1600	µg/Kg wet							
2-Nitrophenol		ND	330	µg/Kg wet							
3,3'-Dichlorobenzidine		ND	1600	µg/Kg wet							
3,4-Benzofluoranthene		ND	330	µg/Kg wet							
3/4-Methylphenol		ND	330	µg/Kg wet							
3-Nitroaniline		ND	330	µg/Kg wet							
4,6-Dinitro-2-methylphenol		ND	1600	µg/Kg wet							
4,6-Dinitro-o-cresol		ND	1600	µg/Kg wet							
4-Bromophenyl phenyl ether		ND	330	µg/Kg wet							
4-Chloro-3-methylphenol		ND	660	µg/Kg wet							
4-Chloroaniline		ND	330	µg/Kg wet							
4-Chlorophenyl phenyl ether		ND	330	µg/Kg wet							
4-Nitroaniline		ND	1600	µg/Kg wet							
4-Nitrophenol		ND	1600	µg/Kg wet							
Acenaphthene		ND	330	µg/Kg wet							
Acenaphthylene		ND	330	µg/Kg wet							
Acetophenone		ND	330	µg/Kg wet							
Aniline		ND	330	µg/Kg wet							
Anthracene		ND	330	µg/Kg wet							
Benzidine		ND	1600	µg/Kg wet							



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID:	Blank (B006388-BLK1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:25			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[a]anthracene			ND	330	µg/Kg wet							
Benzo[a]pyrene			ND	330	µg/Kg wet							
Benzo[b]fluoranthene			ND	330	µg/Kg wet							
Benzo[g,h,i]perylene			ND	330	µg/Kg wet							
Benzo[k]fluoranthene			ND	330	µg/Kg wet							
Benzoic acid			ND	1600	µg/Kg wet							
Benzyl alcohol			ND	660	µg/Kg wet							
beta-Chloronaphthalene			ND	330	µg/Kg wet							
Bis(2-chloroethoxy)methane			ND	330	µg/Kg wet							
Bis(2-chloroethyl)ether			ND	330	µg/Kg wet							
Bis(2-ethylhexyl)phthalate			ND	330	µg/Kg wet							
Butyl benzyl phthalate			ND	330	µg/Kg wet							
Carbazole			ND	330	µg/Kg wet							
Chrysene			ND	330	µg/Kg wet							
Di(2-ethylhexyl) phthalate			ND	330	µg/Kg wet							
Dibenz[a,h]anthracene			ND	330	µg/Kg wet							
Dibenzofuran			ND	330	µg/Kg wet							
Diethyl phthalate			ND	330	µg/Kg wet							
Dimethyl phthalate			ND	330	µg/Kg wet							
Di-n-butyl phthalate			ND	330	µg/Kg wet							
Di-n-octyl phthalate			ND	330	µg/Kg wet							
Fluoranthene			ND	330	µg/Kg wet							
Fluorene			ND	330	µg/Kg wet							
Hexachlorobenzene			ND	330	µg/Kg wet							
Hexachlorobutadiene			ND	330	µg/Kg wet							
Hexachlorocyclopentadiene			ND	330	µg/Kg wet							
Hexachloroethane			ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene			ND	330	µg/Kg wet							
Isophorone			ND	330	µg/Kg wet							
m-Dichlorobenzene			ND	330	µg/Kg wet							
Naphthalene			ND	330	µg/Kg wet							
Nitrobenzene			ND	330	µg/Kg wet							
N-Nitrosodimethylamine			ND	330	µg/Kg wet							
N-Nitrosodi-n-propylamine			ND	330	µg/Kg wet							
N-Nitrosodiphenylamine			ND	330	µg/Kg wet							
o-Chlorophenol			ND	330	µg/Kg wet							
p-Chloroaniline			ND	660	µg/Kg wet							
p-Chloro-m-cresol			ND	660	µg/Kg wet							
p-Cresol			ND	330	µg/Kg wet							
Pentachlorophenol			ND	1600	µg/Kg wet							
Phenanthrene			ND	330	µg/Kg wet							



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	Blank (B006388-BLK1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21					
Source:			Result	Limit	Units	Level	%REC	Limits	RPD	Limit	Qual
Phenol			ND	330	µg/Kg wet						
Pyrene			ND	330	µg/Kg wet						
Pyridine			ND	330	µg/Kg wet						
Total Cresol			ND	330	µg/Kg wet						
Surrogate: 2,4,6-Tribromophenol			88		ug/mL	100.0	87.9	13.9-145			
Surrogate: 2-Fluorobiphenyl			40		ug/mL	50.00	80.5	28.1-110			
Surrogate: 2-Fluorophenol			82		ug/mL	100.0	81.8	24.5-110			
Surrogate: Nitrobenzene-d5			42		ug/mL	50.00	83.0	33.6-110			
Surrogate: Phenol-d5			84		ug/mL	100.0	83.6	29.6-110			
Surrogate: Terphenyl-d14			50		ug/mL	50.00	100	35.8-121			

Sample ID:	Blank (B006388-BLK2)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21					
Source:			Result	Limit	Units	Level	%REC	Limits	RPD	Limit	Qual
Acenaphthene			ND	330	µg/Kg wet						
Acenaphthylene			ND	330	µg/Kg wet						
Anthracene			ND	330	µg/Kg wet						
Benz[a]anthracene			ND	330	µg/Kg wet						
Benzo[a]pyrene			ND	330	µg/Kg wet						
Benzo[b]fluoranthene			ND	330	µg/Kg wet						
Benzo[g,h,i]perylene			ND	330	µg/Kg wet						
Benzo[k]fluoranthene			ND	330	µg/Kg wet						
Chrysene			ND	330	µg/Kg wet						
Dibenz[a,h]anthracene			ND	330	µg/Kg wet						
Fluoranthene			ND	330	µg/Kg wet						
Fluorene			ND	330	µg/Kg wet						
Indeno[1,2,3cd]pyrene			ND	330	µg/Kg wet						
Naphthalene			ND	330	µg/Kg wet						
Phenanthrene			ND	330	µg/Kg wet						
Pyrene			ND	330	µg/Kg wet						
Surrogate: 2,4,6-Tribromophenol			82		ug/mL	100.0	82.4	13.9-145			
Surrogate: 2-Fluorobiphenyl			41		ug/mL	50.00	81.1	28.1-110			
Surrogate: 2-Fluorophenol			79		ug/mL	100.0	79.1	24.5-110			
Surrogate: Nitrobenzene-d5			39		ug/mL	50.00	77.7	33.6-110			
Surrogate: Phenol-d5			82		ug/mL	100.0	81.6	29.6-110			
Surrogate: Terphenyl-d14			43		ug/mL	50.00	86.2	35.8-121			

Sample ID:	LCS (B006388-BS1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21					
Source:			Result	Limit	Units	Level	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene			2210	330	µg/Kg wet	3333	66.4	35.9-110		30	
1,4-Dichlorobenzene			1980	330	µg/Kg wet	3333	59.4	20-124		30	

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Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	LCS (B006388-BS1)	Method:	SW-846 8270C			Prepped:	09/23/2010	07:21		
Source:						Analyzed:	09/23/2010	10:49		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
2,2'-oxybis(1-chloropropane)	2160	330	µg/Kg wet	3333		64.7	10-113		30	
2,4-Dinitrotoluene	2110	330	µg/Kg wet	3333		63.2	42.6-110		30	
2-Chloronaphthalene	2300	330	µg/Kg wet	3333		69.0	19-111		30	
2-Chlorophenol	2230	330	µg/Kg wet	3333		67.0	36.1-110		30	
3,3'-Dichlorobenzidine	2720	1600	µg/Kg wet	3333		81.7	50-150		30	
4-Chloro-3-methylphenol	2420	660	µg/Kg wet	3333		72.5	40.6-119		30	
4-Chlorophenyl phenyl ether	2540	330	µg/Kg wet	3333		76.2	24-113		30	
4-Nitrophenol	2250	1600	µg/Kg wet	3333		67.5	39.1-110		30	
Acenaphthene	2230	330	µg/Kg wet	3333		66.8	42.1-110		30	
Benzo[g,h,i]perylene	2520	330	µg/Kg wet	3333		75.5	50-150		30	
Benzo[k]fluoranthene	2370	330	µg/Kg wet	3333		71.1	28-144		30	
Bis(2-ethylhexyl)phthalate	2430	330	µg/Kg wet	3333		73.0	22-128		30	
Dibenz[a,h]anthracene	2450	330	µg/Kg wet	3333		73.4	26-175		30	
Diethyl phthalate	2530	330	µg/Kg wet	3333		76.0	16-119		30	
Dimethyl phthalate	2370	330	µg/Kg wet	3333		71.0	15-130		30	
Indeno[1,2,3cd]pyrene	2700	330	µg/Kg wet	3333		81.1	50-150		30	
N-Nitrosodi-n-propylamine	2090	330	µg/Kg wet	3333		62.7	38.1-110		30	
Pentachlorophenol	1750	1600	µg/Kg wet	3333		52.6	22.1-110		30	
Phenol	1790	330	µg/Kg wet	3333		53.7	38.9-110		30	
Pyrene	2730	330	µg/Kg wet	3333		82.0	44.3-116		30	
Surrogate: 2,4,6-Tribromophenol	76		ug/mL	100.0		76.5	13.9-145			
Surrogate: 2-Fluorobiphenyl	39		ug/mL	50.00		77.7	28.1-110			
Surrogate: 2-Fluorophenol	74		ug/mL	100.0		74.3	24.5-110			
Surrogate: Nitrobenzene-d5	36		ug/mL	50.00		71.9	33.6-110			
Surrogate: Phenol-d5	68		ug/mL	100.0		68.1	29.6-110			
Surrogate: Terphenyl-d14	47		ug/mL	50.00		93.4	35.8-121			

Sample ID:	Matrix Spike (B006388-MS1)	Method:	SW-846 8270C			Prepped:	09/23/2010	07:21		
Source:	10I0753-01					Analyzed:	09/23/2010	14:48		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2920	380	µg/Kg dry	3807	ND	76.6	33.9-110		30	
1,4-Dichlorobenzene	2750	380	µg/Kg dry	3807	ND	72.3	10-134		30	
2,2'-oxybis(1-chloropropane)	2620	380	µg/Kg dry	3807	ND	68.8	10-123		30	
2,4-Dinitrotoluene	3160	380	µg/Kg dry	3807	ND	83.1	49.9-110		30	
2-Chloronaphthalene	2780	380	µg/Kg dry	3807	ND	72.9	10-121		30	
2-Chlorophenol	2880	380	µg/Kg dry	3807	ND	75.7	35.7-110		30	
3,3'-Dichlorobenzidine	3080	1800	µg/Kg dry	3807	ND	80.8	40-160		30	
4-Chloro-3-methylphenol	3300	750	µg/Kg dry	3807	ND	86.6	41.5-121		30	
4-Chlorophenyl phenyl ether	3130	380	µg/Kg dry	3807	ND	82.2	14-123		30	
4-Nitrophenol	2760	1800	µg/Kg dry	3807	ND	72.5	32.1-121		30	
Acenaphthene	3000	380	µg/Kg dry	3807	ND	78.8	39.8-110		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	Matrix Spike (B006388-MS1)		Method:			SW-846 8270C		Prepped:		09/23/2010	07:21
Source:	10I0753-01							Analyzed:		09/23/2010	14:48
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Benzo[g,h,i]perylene	2400	380	µg/Kg dry	3807	ND	63.1	40-160		30		
Benzo[k]fluoranthene	2110	380	µg/Kg dry	3807	ND	55.5	18-154		30		
Bis(2-ethylhexyl)phthalate	3540	380	µg/Kg dry	3807	ND	92.9	12-138		30		
Dibenz[a,h]anthracene	2540	380	µg/Kg dry	3807	ND	66.7	16-185		30		
Diethyl phthalate	3160	380	µg/Kg dry	3807	ND	83.0	10-129		30		
Dimethyl phthalate	2940	380	µg/Kg dry	3807	ND	77.4	10-140		30		
Indeno[1,2,3cd]pyrene	2620	380	µg/Kg dry	3807	ND	68.9	40-160		30		
N-Nitrosodi-n-propylamine	3110	380	µg/Kg dry	3807	ND	81.6	37.4-110		30		
Pentachlorophenol	2490	1800	µg/Kg dry	3807	ND	65.5	10.6-110		30		
Phenol	2680	380	µg/Kg dry	3807	ND	70.4	43.3-110		30		
Pyrene	2950	380	µg/Kg dry	3807	ND	77.6	37.6-113		30		
Surrogate: 2,4,6-Tribromophenol	96		ug/mL	100.0		96.0	13.9-145				
Surrogate: 2-Fluorobiphenyl	43		ug/mL	50.00		86.5	28.1-110				
Surrogate: 2-Fluorophenol	86		ug/mL	100.0		85.7	24.5-110				
Surrogate: Nitrobenzene-d5	40		ug/mL	50.00		79.9	33.6-110				
Surrogate: Phenol-d5	82		ug/mL	100.0		82.1	29.6-110				
Surrogate: Terphenyl-d14	48		ug/mL	50.00		96.0	35.8-121				

Sample ID:	Matrix Spike Dup (B006388-MSD1)		Method:			SW-846 8270C		Prepped:		09/23/2010	07:21
Source:	10I0753-01							Analyzed:		09/23/2010	15:13
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
1,2,4-Trichlorobenzene	2560	380	µg/Kg dry	3807	ND	67.2	33.9-110	13.0	30		
1,4-Dichlorobenzene	2150	380	µg/Kg dry	3807	ND	56.4	10-134	24.7	30		
2,2'-oxybis(1-chloropropane)	2350	380	µg/Kg dry	3807	ND	61.7	10-123	10.8	30		
2,4-Dinitrotoluene	2770	380	µg/Kg dry	3807	ND	72.8	49.9-110	13.2	30		
2-Chloronaphthalene	2650	380	µg/Kg dry	3807	ND	69.7	10-121	4.53	30		
2-Chlorophenol	2600	380	µg/Kg dry	3807	ND	68.3	35.7-110	10.2	30		
3,3'-Dichlorobenzidine	3000	1800	µg/Kg dry	3807	ND	78.8	40-160	2.52	30		
4-Chloro-3-methylphenol	2940	750	µg/Kg dry	3807	ND	77.3	41.5-121	11.5	30		
4-Chlorophenyl phenyl ether	3110	380	µg/Kg dry	3807	ND	81.6	14-123	0.781	30		
4-Nitrophenol	2990	1800	µg/Kg dry	3807	ND	78.7	32.1-121	8.11	30		
Acenaphthene	2670	380	µg/Kg dry	3807	ND	70.2	39.8-110	11.6	30		
Benzo[g,h,i]perylene	2320	380	µg/Kg dry	3807	ND	60.9	40-160	3.50	30		
Benzo[k]fluoranthene	2130	380	µg/Kg dry	3807	ND	55.9	18-154	0.808	30		
Bis(2-ethylhexyl)phthalate	3260	380	µg/Kg dry	3807	ND	85.6	12-138	8.13	30		
Dibenz[a,h]anthracene	2490	380	µg/Kg dry	3807	ND	65.3	16-185	2.17	30		
Diethyl phthalate	3120	380	µg/Kg dry	3807	ND	81.9	10-129	1.26	30		
Dimethyl phthalate	2910	380	µg/Kg dry	3807	ND	76.3	10-140	1.34	30		
Indeno[1,2,3cd]pyrene	2650	380	µg/Kg dry	3807	ND	69.6	40-160	0.895	30		
N-Nitrosodi-n-propylamine	2390	380	µg/Kg dry	3807	ND	62.7	37.4-110	26.2	30		
Pentachlorophenol	2520	1800	µg/Kg dry	3807	ND	66.2	10.6-110	1.03	30		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID:	Matrix Spike Dup (B006388-MSD1)	Method:			SW-846 8270C		Prepped:	09/23/2010	07:21	
Source:	10I0753-01						Analyzed:	09/23/2010	15:13	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	2160	380	µg/Kg dry	3807	ND	56.6	43.3-110	21.7	30	
Pyrene	3030	380	µg/Kg dry	3807	ND	79.6	37.6-113	2.61	30	
<i>Surrogate: 2,4,6-Tribromophenol</i>	90		ug/mL	100.0		90.0	13.9-145			
<i>Surrogate: 2-Fluorobiphenyl</i>	39		ug/mL	50.00		77.7	28.1-110			
<i>Surrogate: 2-Fluorophenol</i>	70		ug/mL	100.0		69.8	24.5-110			
<i>Surrogate: Nitrobenzene-d5</i>	36		ug/mL	50.00		72.9	33.6-110			
<i>Surrogate: Phenol-d5</i>	69		ug/mL	100.0		69.3	29.6-110			
<i>Surrogate: Terphenyl-d14</i>	45		ug/mL	50.00		89.4	35.8-121			



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006439



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006439

Volatile Organic Compounds, 5035 prep, SB preserve

Sample ID:	Blank (B006439-BLK1)	Method:			SW-846 8260B			Prepped:		09/24/2010 08:31		
Source:								Analyzed:				
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual		
1,1,1,2-Tetrachloroethane	ND	10	µg/Kg wet									
1,1,1-Trichloroethane	ND	5.0	µg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg wet									
1,1,2-Trichloroethane	ND	5.0	µg/Kg wet									
1,1-Dichloroethane	ND	5.0	µg/Kg wet									
1,1-Dichloroethene	ND	5.0	µg/Kg wet									
1,2-Dichloroethane	ND	5.0	µg/Kg wet									
1,2-Dichloropropane	ND	5.0	µg/Kg wet									
2-Butanone	ND	10	µg/Kg wet									
2-Hexanone	ND	5.0	µg/Kg wet									
4-Methyl-2-Pentanone	ND	5.0	µg/Kg wet									
Acetone	ND	50	µg/Kg wet									
Acrolein	ND	100	µg/Kg wet									
Acrylonitrile	ND	100	µg/Kg wet									
Benzene	ND	5.0	µg/Kg wet									
Bromodichloromethane	ND	5.0	µg/Kg wet									
Bromoform	ND	5.0	µg/Kg wet									
Bromomethane	ND	10	µg/Kg wet									
Carbon Disulfide	ND	10	µg/Kg wet									
Carbon tetrachloride	ND	5.0	µg/Kg wet									
Chlorobenzene	ND	5.0	µg/Kg wet									
Chloroethane	ND	10	µg/Kg wet									
Chloroform	ND	5.0	µg/Kg wet									
Chloromethane	ND	10	µg/Kg wet									
cis-1,2-Dichloroethene	ND	5.0	µg/Kg wet									
cis-1,3-Dichloropropene	ND	5.0	µg/Kg wet									
Dibromochloromethane	ND	5.0	µg/Kg wet									
Ethylbenzene	ND	5.0	µg/Kg wet									
m,p-Xylene	ND	5.0	µg/Kg wet									
Methylene chloride	ND	20	µg/Kg wet									
Methyl-t-Butyl Ether	ND	5.0	µg/Kg wet									
o-Xylene	ND	5.0	µg/Kg wet									
Styrene	ND	5.0	µg/Kg wet									
Tetrachloroethene	ND	5.0	µg/Kg wet									
Toluene	ND	5.0	µg/Kg wet									
trans-1,2-Dichloroethene	ND	5.0	µg/Kg wet									
trans-1,3-Dichloropropene	ND	5.0	µg/Kg wet									
Trichloroethene	ND	5.0	µg/Kg wet									
Trichlorofluoromethane	ND	10	µg/Kg wet									

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Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	Blank (B006439-BLK1)	Method:	SW-846 8260B		Prepped:	09/24/2010	08:31		
Source:			Result	%REC	Analyzed:	09/24/2010	10:12		
Analyte	Result	Limit	Units	Level	Result	Limits	RPD	Limit	Qual
Vinyl Acetate	ND	10	µg/Kg wet						
Vinyl chloride	ND	10	µg/Kg wet						
Total 1,2-Dichloroethene	ND	10	µg/Kg wet						
Total Xylenes	ND	5.0	µg/Kg wet						
Surrogate: 1,2-Dichloroethane-d4	52		µg/L	50.00	105	51.7-162			
Surrogate: 4-Bromofluorobenzene	49		µg/L	50.00	98.9	57.4-135			
Surrogate: Dibromofluoromethane	50		µg/L	50.00	101	63.5-139			
Surrogate: Toluene-d8	52		µg/L	50.00	104	66.6-143			

Sample ID:	LCS (B006439-BS1)	Method:	SW-846 8260B		Prepped:	09/24/2010	08:31		
Source:			Result	%REC	Analyzed:	09/24/2010	10:42		
Analyte	Result	Limit	Units	Level	Result	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	52.8		µg/L	50.00	106	73.2-127		30	
1,1,1-Trichloroethane	52.6		µg/L	50.00	105	68.4-134		30	
1,1,2,2-Tetrachloroethane	48.5		µg/L	50.00	97.0	67.8-115		30	
1,1,2-Trichloroethane	50.7		µg/L	50.00	101	74-114		30	
1,1-Dichloroethane	53.4		µg/L	50.00	107	70.3-121		30	
1,1-Dichloroethene	44.5		µg/L	50.00	89.1	54-119		30	
1,2-Dichloroethane	51.9		µg/L	50.00	104	65.5-129		30	
1,2-Dichloropropane	52.8		µg/L	50.00	106	68.6-124		30	
2-Butanone	46.4		µg/L	50.00	92.9	55.8-114		30	
2-Hexanone	44.6		µg/L	50.00	89.3	49.9-110			
4-Methyl-2-Pentanone	48.1		µg/L	50.00	96.2	57-114		30	
Acetone	50.6		µg/L	50.00	101	37.2-135		30	
Acrylonitrile	54.5		µg/L	50.00	109	45.3-148		30	
Benzene	51.4		µg/L	50.00	103	71.8-123		30	
Bromodichloromethane	52.7		µg/L	50.00	105	69.4-132		30	
Bromoform	40.5		µg/L	50.00	80.9	54.7-123		30	
Bromomethane	27.7		µg/L	50.00	55.4	10-143		30	
Carbon Disulfide	59.8		µg/L	50.00	120	80-159		30	
Carbon tetrachloride	53.6		µg/L	50.00	107	68.6-138		30	
Chlorobenzene	53.4		µg/L	50.00	107	80.1-122		30	
Chloroethane	59.6		µg/L	50.00	119	53.6-121		30	
Chloroform	53.0		µg/L	50.00	106	71.9-127		30	
Chloromethane	42.6		µg/L	50.00	85.3	28.3-124		30	
cis-1,2-Dichloroethene	53.8		µg/L	50.00	108	81.5-132		30	
cis-1,3-Dichloropropene	53.8		µg/L	50.00	108	74.9-117		30	
Dibromochloromethane	45.6		µg/L	50.00	91.2	65.1-132		30	
Ethylbenzene	55.0		µg/L	50.00	110	77.1-124		30	
m,p-Xylene	109		µg/L	100.0	109	77.4-126		30	
Methylene chloride	50.7		µg/L	50.00	101	69.2-138		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	LCS (B006439-BS1)		Method:		SW-846 8260B		Prepped:		09/24/2010	08:31
Source:							Analyzed:		09/24/2010	10:42
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Methyl-t-Butyl Ether	51.1		µg/L	50.00	102	77.8-120			30	
o-Xylene	53.0		µg/L	50.00	106	74.9-124			30	
Styrene	54.7		µg/L	50.00	109	77.7-117			30	
Tetrachloroethene	57.2		µg/L	50.00	114	81.9-127			30	
Toluene	53.8		µg/L	50.00	108	76.7-122			30	
trans-1,2-Dichloroethene	51.1		µg/L	50.00	102	67.6-126			30	
trans-1,3-Dichloropropene	58.4		µg/L	50.00	117	77.6-129			30	
Trichloroethene	53.3		µg/L	50.00	107	73.1-131			30	
Trichlorofluoromethane	54.8		µg/L	50.00	110	61.3-140			30	
Vinyl Acetate	69.9		µg/L	50.00	140	52.4-154			30	
Vinyl chloride	41.1		µg/L	50.00	82.3	48.5-124			30	
Surrogate: 1,2-Dichloroethane-d4	49		µg/L	50.00	97.4	51.7-162				
Surrogate: 4-Bromofluorobenzene	51		µg/L	50.00	102	57.4-135				
Surrogate: Dibromofluoromethane	48		µg/L	50.00	97.0	63.5-139				
Surrogate: Toluene-d8	52		µg/L	50.00	104	66.6-143				

Sample ID:	Matrix Spike (B006439-MS1)		Method:		SW-846 8260B		Prepped:		09/24/2010	08:31
Source:	10I0834-01						Analyzed:		09/24/2010	15:40
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	57.4		µg/L	50.00	ND	115	52.5-130		30	
1,1,1-Trichloroethane	53.7		µg/L	50.00	ND	107	46.3-135		30	
1,1,2,2-Tetrachloroethane	65.7		µg/L	50.00	ND	131	56-146		30	
1,1,2-Trichloroethane	56.5		µg/L	50.00	ND	113	60.2-129		30	
1,1-Dichloroethane	66.5		µg/L	50.00	ND	133	59-131		30	S
1,1-Dichloroethene	54.3		µg/L	50.00	ND	109	39.1-116		30	
1,2-Dichloroethane	56.0		µg/L	50.00	ND	112	54.7-126		30	
1,2-Dichloropropane	58.6		µg/L	50.00	ND	117	62.9-118		30	
2-Butanone	49.7		µg/L	50.00	ND	99.5	38.1-138		30	
2-Hexanone	45.2		µg/L	50.00	ND	90.3	34-149		30	
4-Methyl-2-Pentanone	60.2		µg/L	50.00	ND	120	31.1-175		30	
Acetone	103		µg/L	50.00	34.0	139	27.9-161		30	
Acrylonitrile	56.8		µg/L	50.00	ND	114	39.4-186		30	
Benzene	60.4		µg/L	50.00	3.50	114	54.8-120		30	
Bromodichloromethane	54.8		µg/L	50.00	ND	110	54.6-122		30	
Bromoform	37.2		µg/L	50.00	ND	74.3	31-122		30	
Bromomethane	-50.0		µg/L	50.00	ND		10.8-142		30	
Carbon Disulfide	67.5		µg/L	50.00	1.68	132	16-177		30	
Carbon tetrachloride	58.8		µg/L	50.00	ND	118	41.6-132		30	
Chlorobenzene	53.9		µg/L	50.00	ND	108	36.8-129		30	
Chloroethane	71.3		µg/L	50.00	ND	143	42.4-126		30	S
Chloroform	60.4		µg/L	50.00	ND	121	64-123		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	Matrix Spike (B006439-MS1)		Method:		SW-846 8260B		Prepped:		09/24/2010	08:31
Source:	10I0834-01						Analyzed:		09/24/2010	15:40
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Chloromethane	51.9		µg/L	50.00	ND	104	45.3-143		30	
cis-1,2-Dichloroethene	59.8		µg/L	50.00	ND	120	67-126		30	
cis-1,3-Dichloropropene	62.4		µg/L	50.00	ND	125	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	62.4		µg/L	50.00	2.79	119	33.4-133		30	
m,p-Xylene	117		µg/L	100.0	2.96	114	30.5-132		30	
Methylene chloride	57.4		µg/L	50.00	1.99	111	53.8-125		30	
Methyl-t-Butyl Ether	55.0		µg/L	50.00	ND	110	41.1-144		30	
o-Xylene	57.4		µg/L	50.00	1.15	112	38-123		30	
Styrene	47.4		µg/L	50.00	ND	94.9	16.9-131		30	
Tetrachloroethene	60.4		µg/L	50.00	ND	121	43-135		30	
Toluene	69.7		µg/L	50.00	8.11	123	35.2-143		30	
trans-1,2-Dichloroethene	59.9		µg/L	50.00	ND	120	53.7-120		30	
trans-1,3-Dichloropropene	65.0		µg/L	50.00	ND	130	42-148		30	
Trichloroethene	58.1		µg/L	50.00	ND	116	37.1-145		30	
Trichlorofluoromethane	67.4		µg/L	50.00	ND	135	40.5-141		30	
Vinyl Acetate	73.8		µg/L	50.00	ND	148	22.5-184		30	
Vinyl chloride	52.7		µg/L	50.00	ND	105	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	49		µg/L	50.00		98.4	51.7-162			
Surrogate: 4-Bromofluorobenzene	46		µg/L	50.00		91.7	57.4-135			
Surrogate: Dibromofluoromethane	49		µg/L	50.00		97.2	63.5-139			
Surrogate: Toluene-d8	57		µg/L	50.00		114	66.6-143			

Sample ID:	Matrix Spike (B006439-MS2)		Method:		SW-846 8260B		Prepped:		09/24/2010	08:31
Source:	10I0692-02						Analyzed:		09/24/2010	16:09
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	55.8		µg/L	50.00	ND	112	52.5-130		30	
1,1,1-Trichloroethane	57.3		µg/L	50.00	ND	115	46.3-135		30	
1,1,2,2-Tetrachloroethane	67.8		µg/L	50.00	ND	136	56-146		30	
1,1,2-Trichloroethane	55.3		µg/L	50.00	ND	111	60.2-129		30	
1,1-Dichloroethane	61.1		µg/L	50.00	ND	122	59-131		30	
1,1-Dichloroethene	51.8		µg/L	50.00	ND	104	39.1-116		30	
1,2-Dichloroethane	51.0		µg/L	50.00	ND	102	54.7-126		30	
1,2-Dichloropropane	55.6		µg/L	50.00	ND	111	62.9-118		30	
2-Butanone	49.3		µg/L	50.00	5.82	87.0	38.1-138		30	
2-Hexanone	53.3		µg/L	50.00	ND	107	34-149		30	
4-Methyl-2-Pentanone	57.9		µg/L	50.00	ND	116	31.1-175		30	
Acetone	81.1		µg/L	50.00	66.9	28.4	27.9-161		30	
Acrylonitrile	52.9		µg/L	50.00	ND	106	39.4-186		30	
Benzene	56.2		µg/L	50.00	3.26	106	54.8-120		30	
Bromodichloromethane	52.3		µg/L	50.00	ND	105	54.6-122		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	Matrix Spike (B006439-MS2)		Method:	SW-846 8260B		Prepped:	09/24/2010	08:31		
Source:	10I0692-02					Analyzed:	09/24/2010	16:09		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Bromoform	37.2		µg/L	50.00	ND	74.5	31-122		30	
Bromomethane	45.3		µg/L	50.00	ND	90.6	10.8-142		30	
Carbon Disulfide	65.5		µg/L	50.00	2.59	126	16-177		30	
Carbon tetrachloride	56.0		µg/L	50.00	ND	112	41.6-132		30	
Chlorobenzene	52.0		µg/L	50.00	ND	104	36.8-129		30	
Chloroethane	78.6		µg/L	50.00	ND	157	42.4-126		30	S
Chloroform	56.0		µg/L	50.00	ND	112	64-123		30	
Chloromethane	49.6		µg/L	50.00	ND	99.2	45.3-143		30	
cis-1,2-Dichloroethene	56.1		µg/L	50.00	ND	112	67-126		30	
cis-1,3-Dichloropropene	57.5		µg/L	50.00	ND	115	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	60.9		µg/L	50.00	1.62	119	33.4-133		30	
m,p-Xylene	113		µg/L	100.0	1.62	112	30.5-132		30	
Methylene chloride	55.8		µg/L	50.00	2.98	106	53.8-125		30	
Methyl-t-Butyl Ether	53.4		µg/L	50.00	ND	107	41.1-144		30	
o-Xylene	57.3		µg/L	50.00	ND	115	38-123		30	
Styrene	43.5		µg/L	50.00	ND	87.0	16.9-131		30	
Tetrachloroethene	59.4		µg/L	50.00	ND	119	43-135		30	
Toluene	63.9		µg/L	50.00	5.44	117	35.2-143		30	
trans-1,2-Dichloroethene	55.0		µg/L	50.00	ND	110	53.7-120		30	
trans-1,3-Dichloropropene	60.8		µg/L	50.00	ND	122	42-148		30	
Trichloroethene	53.2		µg/L	50.00	ND	106	37.1-145		30	
Trichlorofluoromethane	64.5		µg/L	50.00	ND	129	40.5-141		30	
Vinyl Acetate	72.0		µg/L	50.00	ND	144	22.5-184		30	
Vinyl chloride	47.8		µg/L	50.00	ND	95.6	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	47		µg/L	50.00		94.9	51.7-162			
Surrogate: 4-Bromofluorobenzene	46		µg/L	50.00		92.1	57.4-135			
Surrogate: Dibromofluoromethane	49		µg/L	50.00		97.3	63.5-139			
Surrogate: Toluene-d8	57		µg/L	50.00		115	66.6-143			



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site
Batch: B006444 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID:	Blank (B006444-BLK1)		Method:			SW-846 6010B		Prepped:		09/24/2010 07:55	
Source:								Analyzed:		09/25/2010 00:53	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	ND	0.50	mg/Kg wet								
Barium	ND	0.10	mg/Kg wet								
Cadmium	ND	0.10	mg/Kg wet								
Chromium	ND	0.15	mg/Kg wet								
Lead	ND	0.38	mg/Kg wet								
Selenium	ND	1.5	mg/Kg wet								
Silver	ND	0.50	mg/Kg wet								

Sample ID:	LCS (B006444-BS1)		Method:			SW-846 6010B		Prepped:		09/24/2010 07:55	
Source:								Analyzed:		09/25/2010 01:19	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	233	1.0	mg/Kg wet	238.0		97.9	65.1-118		20		
Barium	246	0.20	mg/Kg wet	243.0		101	68.3-118		20		
Cadmium	171	0.20	mg/Kg wet	185.0		92.2	64.9-112		20		
Chromium	108	0.30	mg/Kg wet	104.0		103	65.8-124		20		
Lead	138	0.75	mg/Kg wet	154.0		89.8	62.9-110		20		
Selenium	134	3.0	mg/Kg wet	156.0		86.2	54.9-110		20		
Silver	65.1	1.0	mg/Kg wet	73.20		88.9	56.8-113		20		

Sample ID:	Matrix Spike (B006444-MS1)		Method:			SW-846 6010B		Prepped:		09/24/2010 07:55	
Source:	10I0805-01							Analyzed:		09/25/2010 01:31	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	125	0.63	mg/Kg dry	125.3	6.06	94.8	75-125		20		
Barium	295	0.13	mg/Kg dry	137.8	154	102	75-125		20		
Cadmium	12.4	0.13	mg/Kg dry	12.53	0.200	97.1	75-125		20		
Chromium	138	0.19	mg/Kg dry	125.3	12.7	100	75-125		20		
Lead	135	0.47	mg/Kg dry	125.3	17.1	94.2	75-125		20		
Selenium	115	1.9	mg/Kg dry	125.3	ND	92.0	75-125		20		
Silver	11.2	0.63	mg/Kg dry	12.53	0.520	85.5	75-125		20		

Sample ID:	Matrix Spike Dup (B006444-MSD1)		Method:			SW-846 6010B		Prepped:		09/24/2010 07:55	
Source:	10I0805-01							Analyzed:		09/25/2010 01:36	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	125	0.61	mg/Kg dry	121.6	6.06	97.5	75-125	0.0859	20		
Barium	299	0.12	mg/Kg dry	133.8	154	108	75-125	1.36	20		
Cadmium	12.2	0.12	mg/Kg dry	12.16	0.200	98.9	75-125	1.15	20		
Chromium	138	0.18	mg/Kg dry	121.6	12.7	103	75-125	0.271	20		
Lead	134	0.46	mg/Kg dry	121.6	17.1	96.3	75-125	0.664	20		
Selenium	114	1.8	mg/Kg dry	121.6	ND	93.4	75-125	1.50	20		
Silver	11.9	0.61	mg/Kg dry	12.16	0.520	93.6	75-125	5.74	20		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0805
Project: Bautsch - Gray Mine Site
Batch: B006453 **Prep:** SW-846 7471

Total Mercury by CVAA

Sample ID: Blank (B006453-BLK1)		Method: SW-846 7471A			Prepped: 09/24/2010 08:20					
Source:					Analyzed: 09/24/2010 13:56					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	ND	0.0010	mg/Kg wet							
Sample ID: LCS (B006453-BS1)		Method: SW-846 7471A			Prepped: 09/24/2010 08:20					
Source:					Analyzed: 09/24/2010 13:58					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	6.01	2.0	mg/Kg wet		7.070		85.0	41.9-122		
Sample ID: Matrix Spike (B006453-MS1)		Method: SW-846 7471A			Prepped: 09/24/2010 08:20					
Source: 10I0805-01					Analyzed: 09/24/2010 14:02					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.0993	0.042	mg/Kg dry	0.08353	0.0233	90.9	70-130		20	
Sample ID: Matrix Spike Dup (B006453-MSD1)		Method: SW-846 7471A			Prepped: 09/24/2010 08:20					
Source: 10I0805-01					Analyzed: 09/24/2010 14:03					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	0.117	0.042	mg/Kg dry	0.08353	0.0233	112	70-130	16.5	20	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

Wet Chemistry - Quality Control

Work Order: 10I0805

Project: Bautsch - Gray Mine Site

Batch: B006461

Percent Solids

Sample ID:	Duplicate (B006461-DUP1)	Method:	SM2540B Rev 18			Prepped:	09/24/2010	13:00
Source:	10I0834-02					Analyzed:	09/27/2010	08:00
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD
Percent Solids	73.4	0.10	wt%		72.1		1.78	20



Microbac

Submitted to: **Samples**
250 West 84th Drive
Merrillville, IN 46410
Tel: 219-769-8378
Fax: 219-769-1664

[] 5713 West 85th Street
Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1379

Chain of Custody Record

Microbac  Tel: 219-769-8378 Fax: 219-769-1664 Tel: 317-872-1375 Fax: 317-872-1379 Number 98246 Instructions on back

Client Name LATA-KEMRON		Project Brunsch - Goph Mine RV	Report Type <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III CLP-like <input type="checkbox"/> Level IV CLP-like
Address 756 Park Meadow		Location CLEVELAND, OH	<input type="checkbox"/> Results Only
City, State, Zip Westerville, OH 43081		PO #	<input checked="" type="checkbox"/> Routine (7 working days) <input type="checkbox"/> RUSH* (notify lab)
Contact Vernon GILES		Compliance Monitoring?	<input type="checkbox"/> Yes(1) <input checked="" type="checkbox"/> No _____ (needed by _____)
Telephone # 404-353-0337		(Agency/Program _____)	

Sampled by (PRINT) Jeff Bryn Sampler Signature 1/1/2014 Sampler Phone # 708-284-2490

End Report via Mail Telephone Fax (fax #) e-mail (address) vincent.kempton.com

* **Matrix Types:** Soil/Solid (S), Sludge, Oil/Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) _____

** **Preservative Types:** (1) HNO₃, (2) H₂SO₄, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfite, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

For Lab Use Only
Client Sample ID
9/23/2010

rev. 11/04/04

LATA-Kemron Remediation LLC - Albuquerque, NM
Bautsch - Grav Mine Site

LATA-Kemron Remediation
Bautsch - Grav Mine Site

Barcode:

Sample temperature upon receipt in degrees C =



September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0668

Re: Bautsch - Gray Mine Site

Dear Tom Urmon:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 9/18/2010 10:20:00AM for the analyses presented in the following report as Work Order 10I0668.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deb Griffiths".

Deborah Griffiths
Senior Project Manager

**WORK ORDER SAMPLE SUMMARY****Date:** Monday, September 27, 2010**Client:** LATA-Kemron Remediation LLC - Albuquerque, NM**Project:** Bautsch - Gray Mine Site**Lab Order:** 10I0668

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0668-01	TS1		09/17/2010 16:10	9/18/2010 10:20:00AM

**CASE NARRATIVE****Date:** Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Project: Bautsch - Gray Mine Site
Lab Order: 10I0668

The Matrix Spike and Matrix Spike Duplicate performed on this sample failed the accuracy criteria for Barium with a high bias. The precision criteria were met. This data is indicative of a bias related to sample matrix.

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID:	10I0668-01
Sampled:	09/17/2010 16:10
Received:	09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8082							
Prep Method: SW846 3550							
Prep Date/Time: 09/21/2010 06:07							
Polychlorinated Biphenyls							Analyst:jw
Aroclor 1016	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1221	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1232	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1242	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1248	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1254	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1260	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1262	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Aroclor 1268	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Total PCB's	A	ND	39		µg/Kg dry	1	09/21/2010 18:05
Surr: Decachlorobiphenyl	S	80.00		38-128	%REC	1	09/21/2010 18:05
Surr: Tetrachloro-m-xylene	S	85.00		40-130	%REC	1	09/21/2010 18:05

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Prep Date/Time: 09/23/2010 07:21							
Semivolatile Organic Compounds							Analyst:cr
1,2,4-Trichlorobenzene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
1,2-Dichlorobenzene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
1,2-Diphenyl-hydrazine	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
1,3-Dichlorobenzene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
1,4-Dichlorobenzene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,2'-oxybis(1-chloropropane)	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,4,5-Trichlorophenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,4,6-Trichlorophenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,4-Dichlorophenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,4-Dimethylphenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,4-Dinitrophenol	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
2,4-Dinitrotoluene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,6-Dichlorophenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2,6-Dinitrotoluene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2-Chloronaphthalene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2-Chlorophenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2-Methyl-4,6-dinitrophenol	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
2-Methylnaphthalene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2-Methylphenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
2-Nitroaniline	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
2-Nitrophenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
3,3'-Dichlorobenzidine	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
3,4-Benzofluoranthene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
3/4-Methylphenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
3-Nitroaniline	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
4,6-Dinitro-2-methylphenol	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
4,6-Dinitro-o-cresol	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Prep Date/Time: 09/23/2010 07:21							
Semivolatile Organic Compounds							
4-Bromophenyl phenyl ether	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
4-Chloro-3-methylphenol	A	ND	770		µg/Kg dry	1	09/23/2010 14:24
4-Chloroaniline	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
4-Chlorophenyl phenyl ether	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
4-Nitroaniline	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
4-Nitrophenol	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
Acenaphthene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Acenaphthylene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Acetophenone	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Aniline	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Anthracene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Benzidine	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
Benzo[a]anthracene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[a]pyrene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[b]fluoranthene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[g,h,i]perylene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Benzo[k]fluoranthene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Benzoic acid	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
Benzyl alcohol	A	ND	770		µg/Kg dry	1	09/23/2010 14:24
beta-Chloronaphthalene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Bis(2-chloroethoxy)methane	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Bis(2-chloroethyl)ether	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Bis(2-ethylhexyl)phthalate	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Butyl benzyl phthalate	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Carbazole	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Chrysene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Di(2-ethylhexyl) phthalate	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Dibenz[a,h]anthracene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Dibenzofuran	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Diethyl phthalate	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Dimethyl phthalate	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Di-n-butyl phthalate	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Di-n-octyl phthalate	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Fluoranthene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Fluorene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Hexachlorobenzene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Hexachlorobutadiene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Hexachlorocyclopentadiene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Hexachloroethane	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Indeno[1,2,3cd]pyrene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Isophorone	A	ND	390		µg/Kg dry	1	09/23/2010 14:24

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Prep Date/Time: 09/23/2010 07:21							
Semivolatile Organic Compounds							Analyst:cr
m-Dichlorobenzene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Naphthalene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Nitrobenzene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
N-Nitrosodimethylamine	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
N-Nitrosodi-n-propylamine	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
N-Nitrosodiphenylamine	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
o-Chlorophenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
p-Chloroaniline	A	ND	770		µg/Kg dry	1	09/23/2010 14:24
p-Chloro-m-cresol	A	ND	770		µg/Kg dry	1	09/23/2010 14:24
p-Cresol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Pentachlorophenol	A	ND	1900		µg/Kg dry	1	09/23/2010 14:24
Phenanthrene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Phenol	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Pyrene	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Pyridine	A	ND	390		µg/Kg dry	1	09/23/2010 14:24
Total Cresol	M	ND	390		µg/Kg dry	1	09/23/2010 14:24
<i>Surr: 2,4,6-Tribromophenol</i>	S	75.30	13.9-145		%REC	1	09/23/2010 14:24
<i>Surr: 2-Fluorobiphenyl</i>	S	75.20	28.1-110		%REC	1	09/23/2010 14:24
<i>Surr: 2-Fluorophenol</i>	S	60.40	24.5-110		%REC	1	09/23/2010 14:24
<i>Surr: Nitrobenzene-d5</i>	S	68.60	33.6-110		%REC	1	09/23/2010 14:24
<i>Surr: Phenol-d5</i>	S	71.30	29.6-110		%REC	1	09/23/2010 14:24
<i>Surr: Terphenyl-d14</i>	S	80.80	35.8-121		%REC	1	09/23/2010 14:24

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B							
Analyst:JLN							
Prep Date/Time: 09/24/2010 08:31							
Volatile Organic Compounds, 5035 prep, SB preserve							
1,1,1,2-Tetrachloroethane	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
1,1,1-Trichloroethane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1,2,2-Tetrachloroethane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1,2-Trichloroethane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1-Dichloroethane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
1,1-Dichloroethene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
1,2-Dichloroethane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
1,2-Dichloropropane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
2-Butanone	A	8.3	5.2		µg/Kg dry	1	09/24/2010 13:10
2-Hexanone	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
4-Methyl-2-Pentanone	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Acetone	A	91	26		µg/Kg dry	1	09/24/2010 13:10
Acrolein	A	ND	52		µg/Kg dry	1	09/24/2010 13:10
Acrylonitrile	A	ND	52		µg/Kg dry	1	09/24/2010 13:10
Benzene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Bromodichloromethane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Bromoform	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10

Analytical Results

Date: Monday, September 27, 2010

Client:	LATA-Kemron Remediation LLC - Albuquerque, NM		
Client Project:	Bautsch - Gray Mine Site		
Client Sample ID:	TS1	Work Order/ID:	10I0668-01
Sample Description:		Sampled:	09/17/2010 16:10
Matrix:	Solid	Received:	09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B						Analyst: JLN	
Volatile Organic Compounds, 5035 prep, SB preserve						Prep Date/Time: 09/24/2010 08:31	
Bromomethane	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
Carbon Disulfide	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
Carbon tetrachloride	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Chlorobenzene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Chloroethane	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
Chloroform	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Chloromethane	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
cis-1,2-Dichloroethene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
cis-1,3-Dichloropropene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Dibromochloromethane	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Ethylbenzene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
m,p-Xylene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Methylene chloride	A	ND	10		µg/Kg dry	1	09/24/2010 13:10
Methyl-t-Butyl Ether	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
o-Xylene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Styrene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Tetrachloroethene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Toluene	A	2.8	2.6		µg/Kg dry	1	09/24/2010 13:10
trans-1,2-Dichloroethene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
trans-1,3-Dichloropropene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Trichloroethene	A	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Trichlorofluoromethane	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
Vinyl Acetate	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
Vinyl chloride	A	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
Total 1,2-Dichloroethene	M	ND	5.2		µg/Kg dry	1	09/24/2010 13:10
Total Xylenes	M	ND	2.6		µg/Kg dry	1	09/24/2010 13:10
Surr: 1,2-Dichloroethane-d4	S	107.00	51.7-162		%REC	1	09/24/2010 13:10
Surr: 4-Bromofluorobenzene	S	93.10	57.4-135		%REC	1	09/24/2010 13:10
Surr: Dibromofluoromethane	S	101.00	63.5-139		%REC	1	09/24/2010 13:10
Surr: Toluene-d8	S	110.00	66.6-143		%REC	1	09/24/2010 13:10

Total Metals by ICP	Method: SW-846 6010B			Analyst: SA		
	Prep Method: SW846 3050B			Prep Date/Time: 09/20/2010 08:44		
Arsenic	A	3.0	0.57	mg/Kg dry	1	09/22/2010 20:40
Barium	A	6.7	0.11	mg/Kg dry	1	09/22/2010 20:40
Cadmium	A	0.22	0.11	mg/Kg dry	1	09/22/2010 20:40
Chromium	A	2.3	0.17	mg/Kg dry	1	09/22/2010 20:40
Lead	A	22	0.43	mg/Kg dry	1	09/22/2010 20:40
Selenium	A	5.9	1.7	mg/Kg dry	1	09/22/2010 20:40
Silver	A	ND	0.57	mg/Kg dry	1	09/22/2010 20:40

Total Mercury by CVAA	Method: SW-846 7471A			Analyst: SA		
	Prep Method: SW-846 7471			Prep Date/Time: 09/20/2010 08:46		

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664



Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: TS1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0668-01
Sampled: 09/17/2010 16:10
Received: 09/18/2010 10:20

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: SW-846 7471A Prep Method: SW-846 7471					Analyst: SA Prep Date/Time: 09/20/2010 08:46
Mercury	A	ND	0.044	mg/Kg dry	1	09/21/2010 13:29	
Percent Solids		Method: SM2540B Rev 18					Analyst: cstas Prep Date/Time: 09/20/2010 12:09
Percent Solids	A	86	0.10	wt%	1	09/21/2010 6:10	



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)

Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)

Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)



COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Monday, September 27, 2010

Date/Time Received: 09/18/2010 10:20

Work Order Number: 10I0668

Received by: Dan Petreikis

Checklist completed by: 9/18/2010 10:25:00AM

Dan Petreikis

Reviewed by: 9/21/2010

DDG

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 4.00°C

After-Hour Arrival?

Yes No

Not Present

Shipping container/cooler in good condition?

Yes No

Not Present

Custody seals intact on shipping container/cooler?

Yes No

Not Present

Custody seals intact on sample containers?

Yes No

COC present?

Yes No

COC included sufficient client identification?

Yes No

COC included sufficient sample collector information?

Yes No

COC included a sample description?

Yes No

COC agrees with sample labels?

Yes No

COC identified the appropriate matrix?

Yes No

COC included date of collection?

Yes No

COC included time of collection?

Yes No

COC identified the appropriate number of containers?

Yes No

Samples in proper container/bottle?

Yes No

Sample containers intact?

Yes No

Sufficient sample volume for indicated test?

Yes No

All samples received within holding time?

Yes No

If the samples are preserved, are the preservatives identified?

Yes No

COC included the requested analyses?

Yes No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes No

Samples received on ice?

Yes No

Samples properly preserved?

Yes No

Voa vials for aqueous samples have zero headspace?

Yes No No VOA vials submitted

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0668-01	TS1	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GC Semivolatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006277 Prep: SW846 3550

Polychlorinated Biphenyls

Sample ID:	Blank (B006277-BLK1)	Method:	SW-846 8082			Prepped:	09/21/2010	06:07		
Source:						Analyzed:	09/21/2010	10:30		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	ND	33	µg/Kg wet							
Aroclor 1221	ND	33	µg/Kg wet							
Aroclor 1232	ND	33	µg/Kg wet							
Aroclor 1242	ND	33	µg/Kg wet							
Aroclor 1248	ND	33	µg/Kg wet							
Aroclor 1254	ND	33	µg/Kg wet							
Aroclor 1260	ND	33	µg/Kg wet							
Aroclor 1262	ND	33	µg/Kg wet							
Aroclor 1268	ND	33	µg/Kg wet							
Total PCB's	ND	33	µg/Kg wet							
Surrogate: Decachlorobiphenyl	7.3		µg/Kg wet	6.667		110	38-128			
Surrogate: Tetrachloro-m-xylene	6.0		µg/Kg wet	6.667		90.0	40-130			

Sample ID:	LCS (B006277-BS1)	Method:	SW-846 8082			Prepped:	09/21/2010	06:07		
Source:						Analyzed:	09/21/2010	10:55		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	178	33	µg/Kg wet	166.7		107	30.2-145		30	
Aroclor 1260	177	33	µg/Kg wet	166.7		106	40.1-138		30	
Surrogate: Decachlorobiphenyl	7.3		µg/Kg wet	6.667		110	38-128			
Surrogate: Tetrachloro-m-xylene	6.3		µg/Kg wet	6.667		95.0	40-130			

Sample ID:	Matrix Spike (B006277-MS1)	Method:	SW-846 8082			Prepped:	09/21/2010	06:07		
Source:	10I0571-08					Analyzed:	09/21/2010	13:01		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	542	180	µg/Kg dry	897.7	ND	60.4	27.2-130		40	
Aroclor 1260	451	180	µg/Kg dry	897.7	ND	50.3	23.8-131		40	
Surrogate: Decachlorobiphenyl	20		µg/Kg dry	35.91		55.0	38-128			
Surrogate: Tetrachloro-m-xylene	14		µg/Kg dry	35.91		40.0	40-130			

Sample ID:	Matrix Spike Dup (B006277-MSD1)	Method:	SW-846 8082			Prepped:	09/21/2010	06:07		
Source:	10I0571-08					Analyzed:	09/21/2010	13:26		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Aroclor 1016	548	180	µg/Kg dry	897.4	ND	61.1	27.2-130	1.09	40	
Aroclor 1260	497	180	µg/Kg dry	897.4	ND	55.4	23.8-131	9.58	40	
Surrogate: Decachlorobiphenyl	20		µg/Kg dry	35.90		55.0	38-128			
Surrogate: Tetrachloro-m-xylene	14		µg/Kg dry	35.90		40.0	40-130			S



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Semivolatile Organic Compounds

Sample ID:	Blank (B006388-BLK1)	Method: SW-846 8270C			Prepped: 09/23/2010 07:21		Analyzed: 09/23/2010 10:25				
Source:		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene		ND	330	µg/Kg wet							
1,2-Dichlorobenzene		ND	330	µg/Kg wet							
1,2-Diphenyl-hydrazine		ND	330	µg/Kg wet							
1,3-Dichlorobenzene		ND	330	µg/Kg wet							
1,4-Dichlorobenzene		ND	330	µg/Kg wet							
2,2'-oxybis(1-chloropropane)		ND	330	µg/Kg wet							
2,4,5-Trichlorophenol		ND	330	µg/Kg wet							
2,4,6-Trichlorophenol		ND	330	µg/Kg wet							
2,4-Dichlorophenol		ND	330	µg/Kg wet							
2,4-Dimethylphenol		ND	330	µg/Kg wet							
2,4-Dinitrophenol		ND	1600	µg/Kg wet							
2,4-Dinitrotoluene		ND	330	µg/Kg wet							
2,6-Dichlorophenol		ND	330	µg/Kg wet							
2,6-Dinitrotoluene		ND	330	µg/Kg wet							
2-Chloronaphthalene		ND	330	µg/Kg wet							
2-Chlorophenol		ND	330	µg/Kg wet							
2-Methyl-4,6-dinitrophenol		ND	1600	µg/Kg wet							
2-Methylnaphthalene		ND	330	µg/Kg wet							
2-Methylphenol		ND	330	µg/Kg wet							
2-Nitroaniline		ND	1600	µg/Kg wet							
2-Nitrophenol		ND	330	µg/Kg wet							
3,3'-Dichlorobenzidine		ND	1600	µg/Kg wet							
3,4-Benzofluoranthene		ND	330	µg/Kg wet							
3/4-Methylphenol		ND	330	µg/Kg wet							
3-Nitroaniline		ND	330	µg/Kg wet							
4,6-Dinitro-2-methylphenol		ND	1600	µg/Kg wet							
4,6-Dinitro-o-cresol		ND	1600	µg/Kg wet							
4-Bromophenyl phenyl ether		ND	330	µg/Kg wet							
4-Chloro-3-methylphenol		ND	660	µg/Kg wet							
4-Chloroaniline		ND	330	µg/Kg wet							
4-Chlorophenyl phenyl ether		ND	330	µg/Kg wet							
4-Nitroaniline		ND	1600	µg/Kg wet							
4-Nitrophenol		ND	1600	µg/Kg wet							
Acenaphthene		ND	330	µg/Kg wet							
Acenaphthylene		ND	330	µg/Kg wet							
Acetophenone		ND	330	µg/Kg wet							
Aniline		ND	330	µg/Kg wet							
Anthracene		ND	330	µg/Kg wet							
Benzidine		ND	1600	µg/Kg wet							



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID:	Blank (B006388-BLK1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		%REC	Limits	RPD	Limit	Qual
Source:			Result	Limit	Units	Level	Result					
Benzo[a]anthracene			ND	330	µg/Kg wet							
Benzo[a]pyrene			ND	330	µg/Kg wet							
Benzo[b]fluoranthene			ND	330	µg/Kg wet							
Benzo[g,h,i]perylene			ND	330	µg/Kg wet							
Benzo[k]fluoranthene			ND	330	µg/Kg wet							
Benzoic acid			ND	1600	µg/Kg wet							
Benzyl alcohol			ND	660	µg/Kg wet							
beta-Chloronaphthalene			ND	330	µg/Kg wet							
Bis(2-chloroethoxy)methane			ND	330	µg/Kg wet							
Bis(2-chloroethyl)ether			ND	330	µg/Kg wet							
Bis(2-ethylhexyl)phthalate			ND	330	µg/Kg wet							
Butyl benzyl phthalate			ND	330	µg/Kg wet							
Carbazole			ND	330	µg/Kg wet							
Chrysene			ND	330	µg/Kg wet							
Di(2-ethylhexyl) phthalate			ND	330	µg/Kg wet							
Dibenz[a,h]anthracene			ND	330	µg/Kg wet							
Dibenzofuran			ND	330	µg/Kg wet							
Diethyl phthalate			ND	330	µg/Kg wet							
Dimethyl phthalate			ND	330	µg/Kg wet							
Di-n-butyl phthalate			ND	330	µg/Kg wet							
Di-n-octyl phthalate			ND	330	µg/Kg wet							
Fluoranthene			ND	330	µg/Kg wet							
Fluorene			ND	330	µg/Kg wet							
Hexachlorobenzene			ND	330	µg/Kg wet							
Hexachlorobutadiene			ND	330	µg/Kg wet							
Hexachlorocyclopentadiene			ND	330	µg/Kg wet							
Hexachloroethane			ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene			ND	330	µg/Kg wet							
Isophorone			ND	330	µg/Kg wet							
m-Dichlorobenzene			ND	330	µg/Kg wet							
Naphthalene			ND	330	µg/Kg wet							
Nitrobenzene			ND	330	µg/Kg wet							
N-Nitrosodimethylamine			ND	330	µg/Kg wet							
N-Nitrosodi-n-propylamine			ND	330	µg/Kg wet							
N-Nitrosodiphenylamine			ND	330	µg/Kg wet							
o-Chlorophenol			ND	330	µg/Kg wet							
p-Chloroaniline			ND	660	µg/Kg wet							
p-Chloro-m-cresol			ND	660	µg/Kg wet							
p-Cresol			ND	330	µg/Kg wet							
Pentachlorophenol			ND	1600	µg/Kg wet							
Phenanthrene			ND	330	µg/Kg wet							



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	Blank (B006388-BLK1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:25			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol			ND	330	µg/Kg wet							
Pyrene			ND	330	µg/Kg wet							
Pyridine			ND	330	µg/Kg wet							
Total Cresol			ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol			88		ug/mL	100.0		87.9	13.9-145			
Surrogate: 2-Fluorobiphenyl			40		ug/mL	50.00		80.5	28.1-110			
Surrogate: 2-Fluorophenol			82		ug/mL	100.0		81.8	24.5-110			
Surrogate: Nitrobenzene-d5			42		ug/mL	50.00		83.0	33.6-110			
Surrogate: Phenol-d5			84		ug/mL	100.0		83.6	29.6-110			
Surrogate: Terphenyl-d14			50		ug/mL	50.00		100	35.8-121			

Sample ID:	Blank (B006388-BLK2)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:42			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Acenaphthene			ND	330	µg/Kg wet							
Acenaphthylene			ND	330	µg/Kg wet							
Anthracene			ND	330	µg/Kg wet							
Benz[a]anthracene			ND	330	µg/Kg wet							
Benzo[a]pyrene			ND	330	µg/Kg wet							
Benzo[b]fluoranthene			ND	330	µg/Kg wet							
Benzo[g,h,i]perylene			ND	330	µg/Kg wet							
Benzo[k]fluoranthene			ND	330	µg/Kg wet							
Chrysene			ND	330	µg/Kg wet							
Dibenz[a,h]anthracene			ND	330	µg/Kg wet							
Fluoranthene			ND	330	µg/Kg wet							
Fluorene			ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene			ND	330	µg/Kg wet							
Naphthalene			ND	330	µg/Kg wet							
Phenanthrene			ND	330	µg/Kg wet							
Pyrene			ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol			82		ug/mL	100.0		82.4	13.9-145			
Surrogate: 2-Fluorobiphenyl			41		ug/mL	50.00		81.1	28.1-110			
Surrogate: 2-Fluorophenol			79		ug/mL	100.0		79.1	24.5-110			
Surrogate: Nitrobenzene-d5			39		ug/mL	50.00		77.7	33.6-110			
Surrogate: Phenol-d5			82		ug/mL	100.0		81.6	29.6-110			
Surrogate: Terphenyl-d14			43		ug/mL	50.00		86.2	35.8-121			

Sample ID:	LCS (B006388-BS1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:49			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene			2210	330	µg/Kg wet	3333		66.4	35.9-110		30	
1,4-Dichlorobenzene			1980	330	µg/Kg wet	3333		59.4	20-124		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	LCS (B006388-BS1)	Method:	SW-846 8270C			Prepped:	09/23/2010	07:21		
Source:						Analyzed:	09/23/2010	10:49		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
2,2'-oxybis(1-chloropropane)	2160	330	µg/Kg wet	3333		64.7	10-113		30	
2,4-Dinitrotoluene	2110	330	µg/Kg wet	3333		63.2	42.6-110		30	
2-Chloronaphthalene	2300	330	µg/Kg wet	3333		69.0	19-111		30	
2-Chlorophenol	2230	330	µg/Kg wet	3333		67.0	36.1-110		30	
3,3'-Dichlorobenzidine	2720	1600	µg/Kg wet	3333		81.7	50-150		30	
4-Chloro-3-methylphenol	2420	660	µg/Kg wet	3333		72.5	40.6-119		30	
4-Chlorophenyl phenyl ether	2540	330	µg/Kg wet	3333		76.2	24-113		30	
4-Nitrophenol	2250	1600	µg/Kg wet	3333		67.5	39.1-110		30	
Acenaphthene	2230	330	µg/Kg wet	3333		66.8	42.1-110		30	
Benzo[g,h,i]perylene	2520	330	µg/Kg wet	3333		75.5	50-150		30	
Benzo[k]fluoranthene	2370	330	µg/Kg wet	3333		71.1	28-144		30	
Bis(2-ethylhexyl)phthalate	2430	330	µg/Kg wet	3333		73.0	22-128		30	
Dibenz[a,h]anthracene	2450	330	µg/Kg wet	3333		73.4	26-175		30	
Diethyl phthalate	2530	330	µg/Kg wet	3333		76.0	16-119		30	
Dimethyl phthalate	2370	330	µg/Kg wet	3333		71.0	15-130		30	
Indeno[1,2,3cd]pyrene	2700	330	µg/Kg wet	3333		81.1	50-150		30	
N-Nitrosodi-n-propylamine	2090	330	µg/Kg wet	3333		62.7	38.1-110		30	
Pentachlorophenol	1750	1600	µg/Kg wet	3333		52.6	22.1-110		30	
Phenol	1790	330	µg/Kg wet	3333		53.7	38.9-110		30	
Pyrene	2730	330	µg/Kg wet	3333		82.0	44.3-116		30	
Surrogate: 2,4,6-Tribromophenol	76		ug/mL	100.0		76.5	13.9-145			
Surrogate: 2-Fluorobiphenyl	39		ug/mL	50.00		77.7	28.1-110			
Surrogate: 2-Fluorophenol	74		ug/mL	100.0		74.3	24.5-110			
Surrogate: Nitrobenzene-d5	36		ug/mL	50.00		71.9	33.6-110			
Surrogate: Phenol-d5	68		ug/mL	100.0		68.1	29.6-110			
Surrogate: Terphenyl-d14	47		ug/mL	50.00		93.4	35.8-121			

Sample ID:	Matrix Spike (B006388-MS1)	Method:	SW-846 8270C			Prepped:	09/23/2010	07:21		
Source:	10I0753-01					Analyzed:	09/23/2010	14:48		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2920	380	µg/Kg dry	3807	ND	76.6	33.9-110		30	
1,4-Dichlorobenzene	2750	380	µg/Kg dry	3807	ND	72.3	10-134		30	
2,2'-oxybis(1-chloropropane)	2620	380	µg/Kg dry	3807	ND	68.8	10-123		30	
2,4-Dinitrotoluene	3160	380	µg/Kg dry	3807	ND	83.1	49.9-110		30	
2-Chloronaphthalene	2780	380	µg/Kg dry	3807	ND	72.9	10-121		30	
2-Chlorophenol	2880	380	µg/Kg dry	3807	ND	75.7	35.7-110		30	
3,3'-Dichlorobenzidine	3080	1800	µg/Kg dry	3807	ND	80.8	40-160		30	
4-Chloro-3-methylphenol	3300	750	µg/Kg dry	3807	ND	86.6	41.5-121		30	
4-Chlorophenyl phenyl ether	3130	380	µg/Kg dry	3807	ND	82.2	14-123		30	
4-Nitrophenol	2760	1800	µg/Kg dry	3807	ND	72.5	32.1-121		30	
Acenaphthene	3000	380	µg/Kg dry	3807	ND	78.8	39.8-110		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	Matrix Spike (B006388-MS1)		Method:			SW-846 8270C		Prepped:		09/23/2010	07:21
Source:	10I0753-01							Analyzed:		09/23/2010	14:48
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Benzo[g,h,i]perylene	2400	380	µg/Kg dry	3807	ND	63.1	40-160		30		
Benzo[k]fluoranthene	2110	380	µg/Kg dry	3807	ND	55.5	18-154		30		
Bis(2-ethylhexyl)phthalate	3540	380	µg/Kg dry	3807	ND	92.9	12-138		30		
Dibenz[a,h]anthracene	2540	380	µg/Kg dry	3807	ND	66.7	16-185		30		
Diethyl phthalate	3160	380	µg/Kg dry	3807	ND	83.0	10-129		30		
Dimethyl phthalate	2940	380	µg/Kg dry	3807	ND	77.4	10-140		30		
Indeno[1,2,3cd]pyrene	2620	380	µg/Kg dry	3807	ND	68.9	40-160		30		
N-Nitrosodi-n-propylamine	3110	380	µg/Kg dry	3807	ND	81.6	37.4-110		30		
Pentachlorophenol	2490	1800	µg/Kg dry	3807	ND	65.5	10.6-110		30		
Phenol	2680	380	µg/Kg dry	3807	ND	70.4	43.3-110		30		
Pyrene	2950	380	µg/Kg dry	3807	ND	77.6	37.6-113		30		
Surrogate: 2,4,6-Tribromophenol	96		ug/mL	100.0		96.0	13.9-145				
Surrogate: 2-Fluorobiphenyl	43		ug/mL	50.00		86.5	28.1-110				
Surrogate: 2-Fluorophenol	86		ug/mL	100.0		85.7	24.5-110				
Surrogate: Nitrobenzene-d5	40		ug/mL	50.00		79.9	33.6-110				
Surrogate: Phenol-d5	82		ug/mL	100.0		82.1	29.6-110				
Surrogate: Terphenyl-d14	48		ug/mL	50.00		96.0	35.8-121				

Sample ID:	Matrix Spike Dup (B006388-MSD1)		Method:			SW-846 8270C		Prepped:		09/23/2010	07:21
Source:	10I0753-01							Analyzed:		09/23/2010	15:13
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
1,2,4-Trichlorobenzene	2560	380	µg/Kg dry	3807	ND	67.2	33.9-110	13.0	30		
1,4-Dichlorobenzene	2150	380	µg/Kg dry	3807	ND	56.4	10-134	24.7	30		
2,2'-oxybis(1-chloropropane)	2350	380	µg/Kg dry	3807	ND	61.7	10-123	10.8	30		
2,4-Dinitrotoluene	2770	380	µg/Kg dry	3807	ND	72.8	49.9-110	13.2	30		
2-Chloronaphthalene	2650	380	µg/Kg dry	3807	ND	69.7	10-121	4.53	30		
2-Chlorophenol	2600	380	µg/Kg dry	3807	ND	68.3	35.7-110	10.2	30		
3,3'-Dichlorobenzidine	3000	1800	µg/Kg dry	3807	ND	78.8	40-160	2.52	30		
4-Chloro-3-methylphenol	2940	750	µg/Kg dry	3807	ND	77.3	41.5-121	11.5	30		
4-Chlorophenyl phenyl ether	3110	380	µg/Kg dry	3807	ND	81.6	14-123	0.781	30		
4-Nitrophenol	2990	1800	µg/Kg dry	3807	ND	78.7	32.1-121	8.11	30		
Acenaphthene	2670	380	µg/Kg dry	3807	ND	70.2	39.8-110	11.6	30		
Benzo[g,h,i]perylene	2320	380	µg/Kg dry	3807	ND	60.9	40-160	3.50	30		
Benzo[k]fluoranthene	2130	380	µg/Kg dry	3807	ND	55.9	18-154	0.808	30		
Bis(2-ethylhexyl)phthalate	3260	380	µg/Kg dry	3807	ND	85.6	12-138	8.13	30		
Dibenz[a,h]anthracene	2490	380	µg/Kg dry	3807	ND	65.3	16-185	2.17	30		
Diethyl phthalate	3120	380	µg/Kg dry	3807	ND	81.9	10-129	1.26	30		
Dimethyl phthalate	2910	380	µg/Kg dry	3807	ND	76.3	10-140	1.34	30		
Indeno[1,2,3cd]pyrene	2650	380	µg/Kg dry	3807	ND	69.6	40-160	0.895	30		
N-Nitrosodi-n-propylamine	2390	380	µg/Kg dry	3807	ND	62.7	37.4-110	26.2	30		
Pentachlorophenol	2520	1800	µg/Kg dry	3807	ND	66.2	10.6-110	1.03	30		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID:	Matrix Spike Dup (B006388-MSD1)	Method:			SW-846 8270C		Prepped:	09/23/2010 07:21		
Source:	10I0753-01						Analyzed:	09/23/2010 15:13		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	2160	380	µg/Kg dry	3807	ND	56.6	43.3-110	21.7	30	
Pyrene	3030	380	µg/Kg dry	3807	ND	79.6	37.6-113	2.61	30	
<i>Surrogate: 2,4,6-Tribromophenol</i>	90		ug/mL	100.0		90.0	13.9-145			
<i>Surrogate: 2-Fluorobiphenyl</i>	39		ug/mL	50.00		77.7	28.1-110			
<i>Surrogate: 2-Fluorophenol</i>	70		ug/mL	100.0		69.8	24.5-110			
<i>Surrogate: Nitrobenzene-d5</i>	36		ug/mL	50.00		72.9	33.6-110			
<i>Surrogate: Phenol-d5</i>	69		ug/mL	100.0		69.3	29.6-110			
<i>Surrogate: Terphenyl-d14</i>	45		ug/mL	50.00		89.4	35.8-121			



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006439



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006439

Volatile Organic Compounds, 5035 prep, SB preserve

Sample ID:	Blank (B006439-BLK1)	Method:	SW-846 8260B		Prepped:	09/24/2010 08:31		Source:	Analyzed:	09/24/2010 10:12	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
1,1,1,2-Tetrachloroethane	ND	10	µg/Kg wet								
1,1,1-Trichloroethane	ND	5.0	µg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg wet								
1,1,2-Trichloroethane	ND	5.0	µg/Kg wet								
1,1-Dichloroethane	ND	5.0	µg/Kg wet								
1,1-Dichloroethene	ND	5.0	µg/Kg wet								
1,2-Dichloroethane	ND	5.0	µg/Kg wet								
1,2-Dichloropropane	ND	5.0	µg/Kg wet								
2-Butanone	ND	10	µg/Kg wet								
2-Hexanone	ND	5.0	µg/Kg wet								
4-Methyl-2-Pentanone	ND	5.0	µg/Kg wet								
Acetone	ND	50	µg/Kg wet								
Acrolein	ND	100	µg/Kg wet								
Acrylonitrile	ND	100	µg/Kg wet								
Benzene	ND	5.0	µg/Kg wet								
Bromodichloromethane	ND	5.0	µg/Kg wet								
Bromoform	ND	5.0	µg/Kg wet								
Bromomethane	ND	10	µg/Kg wet								
Carbon Disulfide	ND	10	µg/Kg wet								
Carbon tetrachloride	ND	5.0	µg/Kg wet								
Chlorobenzene	ND	5.0	µg/Kg wet								
Chloroethane	ND	10	µg/Kg wet								
Chloroform	ND	5.0	µg/Kg wet								
Chloromethane	ND	10	µg/Kg wet								
cis-1,2-Dichloroethene	ND	5.0	µg/Kg wet								
cis-1,3-Dichloropropene	ND	5.0	µg/Kg wet								
Dibromochloromethane	ND	5.0	µg/Kg wet								
Ethylbenzene	ND	5.0	µg/Kg wet								
m,p-Xylene	ND	5.0	µg/Kg wet								
Methylene chloride	ND	20	µg/Kg wet								
Methyl-t-Butyl Ether	ND	5.0	µg/Kg wet								
o-Xylene	ND	5.0	µg/Kg wet								
Styrene	ND	5.0	µg/Kg wet								
Tetrachloroethene	ND	5.0	µg/Kg wet								
Toluene	ND	5.0	µg/Kg wet								
trans-1,2-Dichloroethene	ND	5.0	µg/Kg wet								
trans-1,3-Dichloropropene	ND	5.0	µg/Kg wet								
Trichloroethene	ND	5.0	µg/Kg wet								
Trichlorofluoromethane	ND	10	µg/Kg wet								



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	Blank (B006439-BLK1)	Method:			SW-846 8260B	Prepped:	09/24/2010	08:31		
Source:						Analyzed:	09/24/2010	10:12		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Vinyl Acetate	ND	10	µg/Kg wet							
Vinyl chloride	ND	10	µg/Kg wet							
Total 1,2-Dichloroethene	ND	10	µg/Kg wet							
Total Xylenes	ND	5.0	µg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	52		µg/L	50.00		105	51.7-162			
Surrogate: 4-Bromofluorobenzene	49		µg/L	50.00		98.9	57.4-135			
Surrogate: Dibromofluoromethane	50		µg/L	50.00		101	63.5-139			
Surrogate: Toluene-d8	52		µg/L	50.00		104	66.6-143			

Sample ID:	LCS (B006439-BS1)	Method:			SW-846 8260B	Prepped:	09/24/2010	08:31		
Source:						Analyzed:	09/24/2010	10:42		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	52.8		µg/L	50.00		106	73.2-127			30
1,1,1-Trichloroethane	52.6		µg/L	50.00		105	68.4-134			30
1,1,2,2-Tetrachloroethane	48.5		µg/L	50.00		97.0	67.8-115			30
1,1,2-Trichloroethane	50.7		µg/L	50.00		101	74-114			30
1,1-Dichloroethane	53.4		µg/L	50.00		107	70.3-121			30
1,1-Dichloroethene	44.5		µg/L	50.00		89.1	54-119			30
1,2-Dichloroethane	51.9		µg/L	50.00		104	65.5-129			30
1,2-Dichloropropane	52.8		µg/L	50.00		106	68.6-124			30
2-Butanone	46.4		µg/L	50.00		92.9	55.8-114			30
2-Hexanone	44.6		µg/L	50.00		89.3	49.9-110			
4-Methyl-2-Pentanone	48.1		µg/L	50.00		96.2	57-114			30
Acetone	50.6		µg/L	50.00		101	37.2-135			30
Acrylonitrile	54.5		µg/L	50.00		109	45.3-148			30
Benzene	51.4		µg/L	50.00		103	71.8-123			30
Bromodichloromethane	52.7		µg/L	50.00		105	69.4-132			30
Bromoform	40.5		µg/L	50.00		80.9	54.7-123			30
Bromomethane	27.7		µg/L	50.00		55.4	10-143			30
Carbon Disulfide	59.8		µg/L	50.00		120	80-159			30
Carbon tetrachloride	53.6		µg/L	50.00		107	68.6-138			30
Chlorobenzene	53.4		µg/L	50.00		107	80.1-122			30
Chloroethane	59.6		µg/L	50.00		119	53.6-121			30
Chloroform	53.0		µg/L	50.00		106	71.9-127			30
Chloromethane	42.6		µg/L	50.00		85.3	28.3-124			30
cis-1,2-Dichloroethene	53.8		µg/L	50.00		108	81.5-132			30
cis-1,3-Dichloropropene	53.8		µg/L	50.00		108	74.9-117			30
Dibromochloromethane	45.6		µg/L	50.00		91.2	65.1-132			30
Ethylbenzene	55.0		µg/L	50.00		110	77.1-124			30
m,p-Xylene	109		µg/L	100.0		109	77.4-126			30
Methylene chloride	50.7		µg/L	50.00		101	69.2-138			30



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	LCS (B006439-BS1)		Method:			SW-846 8260B		Prepped:		09/24/2010	08:31
Source:								Analyzed:		09/24/2010	10:42
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Methyl-t-Butyl Ether	51.1		µg/L	50.00	102	77.8-120			30		
o-Xylene	53.0		µg/L	50.00	106	74.9-124			30		
Styrene	54.7		µg/L	50.00	109	77.7-117			30		
Tetrachloroethene	57.2		µg/L	50.00	114	81.9-127			30		
Toluene	53.8		µg/L	50.00	108	76.7-122			30		
trans-1,2-Dichloroethene	51.1		µg/L	50.00	102	67.6-126			30		
trans-1,3-Dichloropropene	58.4		µg/L	50.00	117	77.6-129			30		
Trichloroethene	53.3		µg/L	50.00	107	73.1-131			30		
Trichlorofluoromethane	54.8		µg/L	50.00	110	61.3-140			30		
Vinyl Acetate	69.9		µg/L	50.00	140	52.4-154			30		
Vinyl chloride	41.1		µg/L	50.00	82.3	48.5-124			30		
Surrogate: 1,2-Dichloroethane-d4	49		µg/L	50.00	97.4	51.7-162					
Surrogate: 4-Bromofluorobenzene	51		µg/L	50.00	102	57.4-135					
Surrogate: Dibromofluoromethane	48		µg/L	50.00	97.0	63.5-139					
Surrogate: Toluene-d8	52		µg/L	50.00	104	66.6-143					

Sample ID:	Matrix Spike (B006439-MS1)		Method:			SW-846 8260B		Prepped:		09/24/2010	08:31
Source:	10I0834-01							Analyzed:		09/24/2010	15:40
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
1,1,1,2-Tetrachloroethane	57.4		µg/L	50.00	ND	115	52.5-130		30		
1,1,1-Trichloroethane	53.7		µg/L	50.00	ND	107	46.3-135		30		
1,1,2,2-Tetrachloroethane	65.7		µg/L	50.00	ND	131	56-146		30		
1,1,2-Trichloroethane	56.5		µg/L	50.00	ND	113	60.2-129		30		
1,1-Dichloroethane	66.5		µg/L	50.00	ND	133	59-131		30	S	
1,1-Dichloroethene	54.3		µg/L	50.00	ND	109	39.1-116		30		
1,2-Dichloroethane	56.0		µg/L	50.00	ND	112	54.7-126		30		
1,2-Dichloropropane	58.6		µg/L	50.00	ND	117	62.9-118		30		
2-Butanone	49.7		µg/L	50.00	ND	99.5	38.1-138		30		
2-Hexanone	45.2		µg/L	50.00	ND	90.3	34-149		30		
4-Methyl-2-Pentanone	60.2		µg/L	50.00	ND	120	31.1-175		30		
Acetone	103		µg/L	50.00	34.0	139	27.9-161		30		
Acrylonitrile	56.8		µg/L	50.00	ND	114	39.4-186		30		
Benzene	60.4		µg/L	50.00	3.50	114	54.8-120		30		
Bromodichloromethane	54.8		µg/L	50.00	ND	110	54.6-122		30		
Bromoform	37.2		µg/L	50.00	ND	74.3	31-122		30		
Bromomethane	-50.0		µg/L	50.00	ND		10.8-142		30		
Carbon Disulfide	67.5		µg/L	50.00	1.68	132	16-177		30		
Carbon tetrachloride	58.8		µg/L	50.00	ND	118	41.6-132		30		
Chlorobenzene	53.9		µg/L	50.00	ND	108	36.8-129		30		
Chloroethane	71.3		µg/L	50.00	ND	143	42.4-126		30	S	
Chloroform	60.4		µg/L	50.00	ND	121	64-123		30		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	Matrix Spike (B006439-MS1)		Method:		SW-846 8260B		Prepped:		09/24/2010	08:31
Source:	10I0834-01						Analyzed:		09/24/2010	15:40
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Chloromethane	51.9		µg/L	50.00	ND	104	45.3-143		30	
cis-1,2-Dichloroethene	59.8		µg/L	50.00	ND	120	67-126		30	
cis-1,3-Dichloropropene	62.4		µg/L	50.00	ND	125	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	62.4		µg/L	50.00	2.79	119	33.4-133		30	
m,p-Xylene	117		µg/L	100.0	2.96	114	30.5-132		30	
Methylene chloride	57.4		µg/L	50.00	1.99	111	53.8-125		30	
Methyl-t-Butyl Ether	55.0		µg/L	50.00	ND	110	41.1-144		30	
o-Xylene	57.4		µg/L	50.00	1.15	112	38-123		30	
Styrene	47.4		µg/L	50.00	ND	94.9	16.9-131		30	
Tetrachloroethene	60.4		µg/L	50.00	ND	121	43-135		30	
Toluene	69.7		µg/L	50.00	8.11	123	35.2-143		30	
trans-1,2-Dichloroethene	59.9		µg/L	50.00	ND	120	53.7-120		30	
trans-1,3-Dichloropropene	65.0		µg/L	50.00	ND	130	42-148		30	
Trichloroethene	58.1		µg/L	50.00	ND	116	37.1-145		30	
Trichlorofluoromethane	67.4		µg/L	50.00	ND	135	40.5-141		30	
Vinyl Acetate	73.8		µg/L	50.00	ND	148	22.5-184		30	
Vinyl chloride	52.7		µg/L	50.00	ND	105	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	49		µg/L	50.00		98.4	51.7-162			
Surrogate: 4-Bromofluorobenzene	46		µg/L	50.00		91.7	57.4-135			
Surrogate: Dibromofluoromethane	49		µg/L	50.00		97.2	63.5-139			
Surrogate: Toluene-d8	57		µg/L	50.00		114	66.6-143			

Sample ID:	Matrix Spike (B006439-MS2)		Method:		SW-846 8260B		Prepped:		09/24/2010	08:31
Source:	10I0692-02						Analyzed:		09/24/2010	16:09
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	55.8		µg/L	50.00	ND	112	52.5-130		30	
1,1,1-Trichloroethane	57.3		µg/L	50.00	ND	115	46.3-135		30	
1,1,2,2-Tetrachloroethane	67.8		µg/L	50.00	ND	136	56-146		30	
1,1,2-Trichloroethane	55.3		µg/L	50.00	ND	111	60.2-129		30	
1,1-Dichloroethane	61.1		µg/L	50.00	ND	122	59-131		30	
1,1-Dichloroethene	51.8		µg/L	50.00	ND	104	39.1-116		30	
1,2-Dichloroethane	51.0		µg/L	50.00	ND	102	54.7-126		30	
1,2-Dichloropropane	55.6		µg/L	50.00	ND	111	62.9-118		30	
2-Butanone	49.3		µg/L	50.00	5.82	87.0	38.1-138		30	
2-Hexanone	53.3		µg/L	50.00	ND	107	34-149		30	
4-Methyl-2-Pentanone	57.9		µg/L	50.00	ND	116	31.1-175		30	
Acetone	81.1		µg/L	50.00	66.9	28.4	27.9-161		30	
Acrylonitrile	52.9		µg/L	50.00	ND	106	39.4-186		30	
Benzene	56.2		µg/L	50.00	3.26	106	54.8-120		30	
Bromodichloromethane	52.3		µg/L	50.00	ND	105	54.6-122		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006439

Sample ID:	Matrix Spike (B006439-MS2)		Method:	SW-846 8260B		Prepped:	09/24/2010	08:31		
Source:	10I0692-02					Analyzed:	09/24/2010	16:09		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Bromoform	37.2		µg/L	50.00	ND	74.5	31-122		30	
Bromomethane	45.3		µg/L	50.00	ND	90.6	10.8-142		30	
Carbon Disulfide	65.5		µg/L	50.00	2.59	126	16-177		30	
Carbon tetrachloride	56.0		µg/L	50.00	ND	112	41.6-132		30	
Chlorobenzene	52.0		µg/L	50.00	ND	104	36.8-129		30	
Chloroethane	78.6		µg/L	50.00	ND	157	42.4-126		30	S
Chloroform	56.0		µg/L	50.00	ND	112	64-123		30	
Chloromethane	49.6		µg/L	50.00	ND	99.2	45.3-143		30	
cis-1,2-Dichloroethene	56.1		µg/L	50.00	ND	112	67-126		30	
cis-1,3-Dichloropropene	57.5		µg/L	50.00	ND	115	49.9-139		30	
Dibromochloromethane	47.4		µg/L	50.00	ND	94.8	52.1-132		30	
Ethylbenzene	60.9		µg/L	50.00	1.62	119	33.4-133		30	
m,p-Xylene	113		µg/L	100.0	1.62	112	30.5-132		30	
Methylene chloride	55.8		µg/L	50.00	2.98	106	53.8-125		30	
Methyl-t-Butyl Ether	53.4		µg/L	50.00	ND	107	41.1-144		30	
o-Xylene	57.3		µg/L	50.00	ND	115	38-123		30	
Styrene	43.5		µg/L	50.00	ND	87.0	16.9-131		30	
Tetrachloroethene	59.4		µg/L	50.00	ND	119	43-135		30	
Toluene	63.9		µg/L	50.00	5.44	117	35.2-143		30	
trans-1,2-Dichloroethene	55.0		µg/L	50.00	ND	110	53.7-120		30	
trans-1,3-Dichloropropene	60.8		µg/L	50.00	ND	122	42-148		30	
Trichloroethene	53.2		µg/L	50.00	ND	106	37.1-145		30	
Trichlorofluoromethane	64.5		µg/L	50.00	ND	129	40.5-141		30	
Vinyl Acetate	72.0		µg/L	50.00	ND	144	22.5-184		30	
Vinyl chloride	47.8		µg/L	50.00	ND	95.6	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	47		µg/L	50.00		94.9	51.7-162			
Surrogate: 4-Bromofluorobenzene	46		µg/L	50.00		92.1	57.4-135			
Surrogate: Dibromofluoromethane	49		µg/L	50.00		97.3	63.5-139			
Surrogate: Toluene-d8	57		µg/L	50.00		115	66.6-143			



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

Metals - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site
Batch: B006234 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID: Blank (B006234-BLK1)		Method: SW-846 6010B			Prepped: 09/20/2010 08:44					
Source:					Analyzed: 09/22/2010 19:29					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	ND	0.50	mg/Kg wet							
Barium	ND	0.10	mg/Kg wet							
Cadmium	ND	0.10	mg/Kg wet							
Chromium	ND	0.15	mg/Kg wet							
Lead	ND	0.38	mg/Kg wet							
Selenium	ND	1.5	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							

Sample ID: LCS (B006234-BS1)		Method: SW-846 6010B			Prepped: 09/20/2010 08:44					
Source:					Analyzed: 09/22/2010 19:56					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	228	1.0	mg/Kg wet	238.0		96.0	65.1-118		20	
Barium	239	0.20	mg/Kg wet	243.0		98.4	68.3-118		20	
Cadmium	169	0.20	mg/Kg wet	185.0		91.4	64.9-112		20	
Chromium	107	0.30	mg/Kg wet	104.0		103	65.8-124		20	
Lead	135	0.75	mg/Kg wet	154.0		87.9	62.9-110		20	
Selenium	131	3.0	mg/Kg wet	156.0		83.8	54.9-110		20	
Silver	64.2	1.0	mg/Kg wet	73.20		87.7	56.8-113		20	

Sample ID: Matrix Spike (B006234-MS1)		Method: SW-846 6010B			Prepped: 09/20/2010 08:44					
Source: 10I0668-01					Analyzed: 09/22/2010 20:46					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	119	0.58	mg/Kg dry	116.9	3.03	98.8	75-125		20	
Barium	255	0.12	mg/Kg dry	128.6	6.71	193	75-125		20	S
Cadmium	12.1	0.12	mg/Kg dry	11.69	0.221	102	75-125		20	
Chromium	132	0.18	mg/Kg dry	116.9	2.33	111	75-125		20	
Lead	129	0.44	mg/Kg dry	116.9	22.3	91.3	75-125		20	
Selenium	112	1.8	mg/Kg dry	116.9	5.92	91.0	75-125		20	
Silver	11.2	0.58	mg/Kg dry	11.69	0.176	94.1	75-125		20	

Sample ID: Matrix Spike Dup (B006234-MSD1)		Method: SW-846 6010B			Prepped: 09/20/2010 08:44					
Source: 10I0668-01					Analyzed: 09/22/2010 21:13					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Arsenic	117	0.58	mg/Kg dry	116.9	3.03	97.2	75-125	1.64	20	
Barium	256	0.12	mg/Kg dry	128.6	6.71	194	75-125	0.321	20	S
Cadmium	11.2	0.12	mg/Kg dry	11.69	0.221	93.8	75-125	7.88	20	
Chromium	130	0.18	mg/Kg dry	116.9	2.33	109	75-125	1.56	20	
Lead	127	0.44	mg/Kg dry	116.9	22.3	89.3	75-125	1.87	20	
Selenium	110	1.8	mg/Kg dry	116.9	5.92	89.2	75-125	1.84	20	
Silver	11.1	0.58	mg/Kg dry	11.69	0.176	93.2	75-125	0.946	20	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0668
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Sample ID:	Post Spike (B006234-PS1)			Method:	SW-846 6010B			Prepped:	09/20/2010 08:44		
Source:	10I0668-01							Analyzed:	09/23/2010 12:43		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Barium	4.38		mg/Kg	2.200	0.118	194	85-115			S	

Batch: B006249 **Prep:** SW-846 7471

Total Mercury by CVAA

Sample ID:	Blank (B006249-BLK1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:								Analyzed:	09/21/2010 13:17		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	ND	0.0010	mg/Kg wet								

Sample ID:	LCS (B006249-BS1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:								Analyzed:	09/21/2010 13:19		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	5.94	2.0	mg/Kg wet	7.070		84.0	41.9-122				

Sample ID:	Matrix Spike (B006249-MS1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:	10I0668-01							Analyzed:	09/21/2010 13:30		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	0.117	0.042	mg/Kg dry	0.08350	0.0343	99.0	70-130			20	

Sample ID:	Matrix Spike Dup (B006249-MSD1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:	10I0668-01							Analyzed:	09/21/2010 13:32		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	0.110	0.043	mg/Kg dry	0.08595	0.0343	88.4	70-130	5.94	20		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

Wet Chemistry - Quality Control

Work Order: 10I0668

Project: Bautsch - Gray Mine Site

Batch: B006258

Percent Solids

Sample ID: Duplicate (B006258-DUP1)

Method: SM2540B Rev 18

Prepped: 09/20/2010 12:09

Source: 10I0668-01

Analyzed: 09/21/2010 06:10

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Percent Solids	85.5	0.10	wt%		85.5			0.102	20	

Percent Solids

85.5

0.1

Wt %

83

3

0.

02

20



September 27, 2010

LATA-Kemron Remediation LLC - Albuquerque, N
2424 Louisiana Blvd. NE, Suite 400
Albuquerque, NM 87110

Work Order No.: 10I0637

Re: Bautsch - Gray Mine Site

Dear Tom Urmon:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 9/17/2010 10:00:00AM for the analyses presented in the following report as Work Order 10I0637.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deb Griffiths".

Deborah Griffiths
Senior Project Manager

**WORK ORDER SAMPLE SUMMARY****Date:** Monday, September 27, 2010**Client:** LATA-Kemron Remediation LLC - Albuquerque, NM**Project:** Bautsch - Gray Mine Site**Lab Order:** 10I0637

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10I0637-01	BH1		09/16/2010 12:30	9/17/2010 10:00:00AM
10I0637-02	BH2		09/16/2010 12:40	9/17/2010 10:00:00AM

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8082							
Prep Method: SW846 3550							
Polychlorinated Biphenyls							Analyst:jw
Aroclor 1016	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1221	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1232	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1242	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1248	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1254	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1260	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1262	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Aroclor 1268	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Total PCB's	A	ND	37		µg/Kg dry	1	09/21/2010 17:14
Surr: Decachlorobiphenyl	S	85.00		38-128	%REC	1	09/21/2010 17:14
Surr: Tetrachloro-m-xylene	S	90.00		40-130	%REC	1	09/21/2010 17:14

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Semivolatile Organic Compounds							Analyst:cr
1,2,4-Trichlorobenzene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
1,2-Dichlorobenzene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
1,2-Diphenyl-hydrazine	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
1,3-Dichlorobenzene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
1,4-Dichlorobenzene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,2'-oxybis(1-chloropropane)	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,4,5-Trichlorophenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,4,6-Trichlorophenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,4-Dichlorophenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,4-Dimethylphenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,4-Dinitrophenol	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
2,4-Dinitrotoluene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,6-Dichlorophenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2,6-Dinitrotoluene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2-Chloronaphthalene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2-Chlorophenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2-Methyl-4,6-dinitrophenol	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
2-Methylnaphthalene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2-Methylphenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
2-Nitroaniline	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
2-Nitrophenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
3,3'-Dichlorobenzidine	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
3,4-Benzofluoranthene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
3/4-Methylphenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
3-Nitroaniline	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
4,6-Dinitro-2-methylphenol	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
4,6-Dinitro-o-cresol	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Semivolatile Organic Compounds				Method: SW-846 8270C Prep Method: SW846 3550A			Analyst: cr Prep Date/Time: 09/23/2010 07:21
4-Bromophenyl phenyl ether	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
4-Chloro-3-methylphenol	A	ND	730		µg/Kg dry	1	09/23/2010 12:48
4-Chloroaniline	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
4-Chlorophenyl phenyl ether	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
4-Nitroaniline	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
4-Nitrophenol	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
Acenaphthene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Acenaphthylene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Acetophenone	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Aniline	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Anthracene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Benzidine	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
Benzo[a]anthracene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[a]pyrene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[b]fluoranthene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[g,h,i]perylene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Benzo[k]fluoranthene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Benzoic acid	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
Benzyl alcohol	A	ND	730		µg/Kg dry	1	09/23/2010 12:48
beta-Chloronaphthalene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Bis(2-chloroethoxy)methane	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Bis(2-chloroethyl)ether	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Bis(2-ethylhexyl)phthalate	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Butyl benzyl phthalate	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Carbazole	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Chrysene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Di(2-ethylhexyl) phthalate	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Dibenz[a,h]anthracene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Dibenzofuran	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Diethyl phthalate	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Dimethyl phthalate	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Di-n-butyl phthalate	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Di-n-octyl phthalate	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Fluoranthene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Fluorene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Hexachlorobenzene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Hexachlorobutadiene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Hexachlorocyclopentadiene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Hexachloroethane	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Indeno[1,2,3cd]pyrene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Isophorone	A	ND	370		µg/Kg dry	1	09/23/2010 12:48

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Prep Date/Time: 09/23/2010 07:21							
Semivolatile Organic Compounds							Analyst: cr
m-Dichlorobenzene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Naphthalene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Nitrobenzene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
N-Nitrosodimethylamine	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
N-Nitrosodi-n-propylamine	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
N-Nitrosodiphenylamine	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
o-Chlorophenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
p-Chloroaniline	A	ND	730		µg/Kg dry	1	09/23/2010 12:48
p-Chloro-m-cresol	A	ND	730		µg/Kg dry	1	09/23/2010 12:48
p-Cresol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Pentachlorophenol	A	ND	1800		µg/Kg dry	1	09/23/2010 12:48
Phenanthrene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Phenol	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Pyrene	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Pyridine	A	ND	370		µg/Kg dry	1	09/23/2010 12:48
Total Cresol	M	ND	370		µg/Kg dry	1	09/23/2010 12:48
<i>Surr: 2,4,6-Tribromophenol</i>	S	81.50	13.9-145		%REC	1	09/23/2010 12:48
<i>Surr: 2-Fluorobiphenyl</i>	S	81.10	28.1-110		%REC	1	09/23/2010 12:48
<i>Surr: 2-Fluorophenol</i>	S	71.00	24.5-110		%REC	1	09/23/2010 12:48
<i>Surr: Nitrobenzene-d5</i>	S	80.70	33.6-110		%REC	1	09/23/2010 12:48
<i>Surr: Phenol-d5</i>	S	76.80	29.6-110		%REC	1	09/23/2010 12:48
<i>Surr: Terphenyl-d14</i>	S	96.10	35.8-121		%REC	1	09/23/2010 12:48

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B							
Analyst: JLN							
Prep Date/Time: 09/17/2010 11:58							
Volatile Organic Compounds, 5035 prep, SB preserve							
1,1,1,2-Tetrachloroethane	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
1,1,1-Trichloroethane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1,2,2-Tetrachloroethane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1,2-Trichloroethane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1-Dichloroethane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
1,1-Dichloroethene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
1,2-Dichloroethane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
1,2-Dichloropropane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
2-Butanone	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
2-Hexanone	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
4-Methyl-2-Pentanone	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Acetone	A	ND	32		µg/Kg dry	1	09/17/2010 15:08
Acrolein	A	ND	63		µg/Kg dry	1	09/17/2010 15:08
Acrylonitrile	A	ND	63		µg/Kg dry	1	09/17/2010 15:08
Benzene	A	4.9	3.2		µg/Kg dry	1	09/17/2010 15:08
Bromodichloromethane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Bromoform	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08

Analytical Results

Date: Monday, September 27, 2010

Client:	LATA-Kemron Remediation LLC - Albuquerque, NM		
Client Project:	Bautsch - Gray Mine Site		
Client Sample ID:	BH1	Work Order/ID:	10I0637-01
Sample Description:		Sampled:	09/16/2010 12:30
Matrix:	Solid	Received:	09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B						Analyst: JLN	
Volatile Organic Compounds, 5035 prep, SB preserve						Prep Date/Time: 09/17/2010 11:58	
Bromomethane	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
Carbon Disulfide	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
Carbon tetrachloride	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Chlorobenzene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Chloroethane	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
Chloroform	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Chloromethane	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
cis-1,2-Dichloroethene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
cis-1,3-Dichloropropene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Dibromochloromethane	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Ethylbenzene	A	7.3	3.2		µg/Kg dry	1	09/17/2010 15:08
m,p-Xylene	A	5.4	3.2		µg/Kg dry	1	09/17/2010 15:08
Methylene chloride	A	ND	13		µg/Kg dry	1	09/17/2010 15:08
Methyl-t-Butyl Ether	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
o-Xylene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Styrene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Tetrachloroethene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Toluene	A	15	3.2		µg/Kg dry	1	09/17/2010 15:08
trans-1,2-Dichloroethene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
trans-1,3-Dichloropropene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Trichloroethene	A	ND	3.2		µg/Kg dry	1	09/17/2010 15:08
Trichlorofluoromethane	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
Vinyl Acetate	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
Vinyl chloride	A	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
Total 1,2-Dichloroethene	M	ND	6.3		µg/Kg dry	1	09/17/2010 15:08
Total Xylenes	M	7.9	3.2		µg/Kg dry	1	09/17/2010 15:08
Surr: 1,2-Dichloroethane-d4	S	110.00	51.7-162	%REC		1	09/17/2010 15:08
Surr: 4-Bromofluorobenzene	S	102.00	57.4-135	%REC		1	09/17/2010 15:08
Surr: Dibromofluoromethane	S	101.00	63.5-139	%REC		1	09/17/2010 15:08
Surr: Toluene-d8	S	103.00	66.6-143	%REC		1	09/17/2010 15:08

Total Metals by ICP	Method: SW-846 6010B			Analyst: SA		
	Prep Method: SW846 3050B			Prep Date/Time: 09/20/2010 08:44		
Arsenic	A	3.3	0.56	mg/Kg dry	1	09/22/2010 20:29
Barium	A	12	0.11	mg/Kg dry	1	09/22/2010 20:29
Cadmium	A	0.30	0.11	mg/Kg dry	1	09/22/2010 20:29
Chromium	A	2.7	0.17	mg/Kg dry	1	09/22/2010 20:29
Lead	A	49	0.42	mg/Kg dry	1	09/22/2010 20:29
Selenium	A	5.3	1.7	mg/Kg dry	1	09/22/2010 20:29
Silver	A	ND	0.56	mg/Kg dry	1	09/22/2010 20:29

Total Mercury by CVAA	Method: SW-846 7471A			Analyst: SA		
	Prep Method: SW-846 7471			Prep Date/Time: 09/20/2010 08:46		

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664



Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH1
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-01
Sampled: 09/16/2010 12:30
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: SW-846 7471A					Analyst: SA
Mercury	A	ND	0.045	mg/Kg dry	1	09/21/2010 13:26	Prep Date/Time: 09/20/2010 08:46
Percent Solids		Method: SM2540B Rev 18					Analyst: CSTAS
Percent Solids	A	90	0.10	wt%	1	09/20/2010 6:30	Prep Date/Time: 09/17/2010 15:01

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8082							
Prep Method: SW846 3550							
Polychlorinated Biphenyls							Analyst:jw
Aroclor 1016	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1221	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1232	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1242	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1248	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1254	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1260	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1262	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Aroclor 1268	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Total PCB's	A	ND	34		µg/Kg dry	1	09/21/2010 17:39
Surr: Decachlorobiphenyl	S	85.00		38-128	%REC	1	09/21/2010 17:39
Surr: Tetrachloro-m-xylene	S	85.00		40-130	%REC	1	09/21/2010 17:39

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Semivolatile Organic Compounds							Analyst:cr
1,2,4-Trichlorobenzene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
1,2-Dichlorobenzene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
1,2-Diphenyl-hydrazine	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
1,3-Dichlorobenzene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
1,4-Dichlorobenzene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,2'-oxybis(1-chloropropane)	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,4,5-Trichlorophenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,4,6-Trichlorophenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,4-Dichlorophenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,4-Dimethylphenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,4-Dinitrophenol	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
2,4-Dinitrotoluene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,6-Dichlorophenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2,6-Dinitrotoluene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2-Chloronaphthalene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2-Chlorophenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2-Methyl-4,6-dinitrophenol	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
2-Methylnaphthalene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2-Methylphenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
2-Nitroaniline	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
2-Nitrophenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
3,3'-Dichlorobenzidine	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
3,4-Benzofluoranthene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
3/4-Methylphenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
3-Nitroaniline	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
4,6-Dinitro-2-methylphenol	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
4,6-Dinitro-o-cresol	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11

Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Semivolatile Organic Compounds				Method: SW-846 8270C Prep Method: SW846 3550A			Analyst: cr Prep Date/Time: 09/23/2010 07:21
4-Bromophenyl phenyl ether	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
4-Chloro-3-methylphenol	A	ND	680		µg/Kg dry	1	09/23/2010 13:11
4-Chloroaniline	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
4-Chlorophenyl phenyl ether	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
4-Nitroaniline	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
4-Nitrophenol	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
Acenaphthene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Acenaphthylene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Acetophenone	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Aniline	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Anthracene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Benzidine	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
Benzo[a]anthracene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[a]pyrene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[b]fluoranthene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[g,h,i]perylene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Benzo[k]fluoranthene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Benzoic acid	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
Benzyl alcohol	A	ND	680		µg/Kg dry	1	09/23/2010 13:11
beta-Chloronaphthalene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Bis(2-chloroethoxy)methane	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Bis(2-chloroethyl)ether	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Bis(2-ethylhexyl)phthalate	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Butyl benzyl phthalate	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Carbazole	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Chrysene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Di(2-ethylhexyl) phthalate	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Dibenz[a,h]anthracene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Dibenzofuran	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Diethyl phthalate	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Dimethyl phthalate	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Di-n-butyl phthalate	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Di-n-octyl phthalate	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Fluoranthene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Fluorene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Hexachlorobenzene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Hexachlorobutadiene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Hexachlorocyclopentadiene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Hexachloroethane	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Indeno[1,2,3cd]pyrene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Isophorone	A	ND	340		µg/Kg dry	1	09/23/2010 13:11

Analytical Results

Date: Monday, September 27, 2010

Client:	LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project:	Bautsch - Gray Mine Site
Client Sample ID:	BH2
Sample Description:	
Matrix:	Solid
Work Order/ID:	10I0637-02
Sampled:	09/16/2010 12:40
Received:	09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8270C							
Prep Method: SW846 3550A							
Prep Date/Time: 09/23/2010 07:21							
Semivolatile Organic Compounds							
m-Dichlorobenzene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Naphthalene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Nitrobenzene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
N-Nitrosodimethylamine	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
N-Nitrosodi-n-propylamine	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
N-Nitrosodiphenylamine	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
o-Chlorophenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
p-Chloroaniline	A	ND	680		µg/Kg dry	1	09/23/2010 13:11
p-Chloro-m-cresol	A	ND	680		µg/Kg dry	1	09/23/2010 13:11
p-Cresol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Pentachlorophenol	A	ND	1700		µg/Kg dry	1	09/23/2010 13:11
Phenanthrene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Phenol	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Pyrene	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Pyridine	A	ND	340		µg/Kg dry	1	09/23/2010 13:11
Total Cresol	M	ND	340		µg/Kg dry	1	09/23/2010 13:11
<i>Surr: 2,4,6-Tribromophenol</i>	S	76.50	13.9-145		%REC	1	09/23/2010 13:11
<i>Surr: 2-Fluorobiphenyl</i>	S	71.80	28.1-110		%REC	1	09/23/2010 13:11
<i>Surr: 2-Fluorophenol</i>	S	60.40	24.5-110		%REC	1	09/23/2010 13:11
<i>Surr: Nitrobenzene-d5</i>	S	66.10	33.6-110		%REC	1	09/23/2010 13:11
<i>Surr: Phenol-d5</i>	S	71.00	29.6-110		%REC	1	09/23/2010 13:11
<i>Surr: Terphenyl-d14</i>	S	93.70	35.8-121		%REC	1	09/23/2010 13:11

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B							
Analyst: JLN							
Prep Date/Time: 09/17/2010 11:58							
Volatile Organic Compounds, 5035 prep, SB preserve							
1,1,1,2-Tetrachloroethane	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
1,1,1-Trichloroethane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1,2,2-Tetrachloroethane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1,2-Trichloroethane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1-Dichloroethane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
1,1-Dichloroethene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
1,2-Dichloroethane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
1,2-Dichloropropane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
2-Butanone	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
2-Hexanone	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
4-Methyl-2-Pentanone	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Acetone	A	ND	21		µg/Kg dry	1	09/17/2010 15:38
Acrolein	A	ND	43		µg/Kg dry	1	09/17/2010 15:38
Acrylonitrile	A	ND	43		µg/Kg dry	1	09/17/2010 15:38
Benzene	A	2.3			µg/Kg dry	1	09/17/2010 15:38
Bromodichloromethane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Bromoform	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38

Analytical Results

Date: Monday, September 27, 2010

Client:	LATA-Kemron Remediation LLC - Albuquerque, NM		
Client Project:	Bautsch - Gray Mine Site		
Client Sample ID:	BH2	Work Order/ID:	10I0637-02
Sample Description:		Sampled:	09/16/2010 12:40
Matrix:	Solid	Received:	09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SW-846 8260B						Analyst: JLN	
Volatile Organic Compounds, 5035 prep, SB preserve						Prep Date/Time: 09/17/2010 11:58	
Bromomethane	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
Carbon Disulfide	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
Carbon tetrachloride	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Chlorobenzene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Chloroethane	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
Chloroform	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Chloromethane	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
cis-1,2-Dichloroethene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
cis-1,3-Dichloropropene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Dibromochloromethane	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Ethylbenzene	A	2.8	2.1		µg/Kg dry	1	09/17/2010 15:38
m,p-Xylene	A	2.1	2.1		µg/Kg dry	1	09/17/2010 15:38
Methylene chloride	A	ND	8.6		µg/Kg dry	1	09/17/2010 15:38
Methyl-t-Butyl Ether	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
o-Xylene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Styrene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Tetrachloroethene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Toluene	A	6.0	2.1		µg/Kg dry	1	09/17/2010 15:38
trans-1,2-Dichloroethene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
trans-1,3-Dichloropropene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Trichloroethene	A	ND	2.1		µg/Kg dry	1	09/17/2010 15:38
Trichlorofluoromethane	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
Vinyl Acetate	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
Vinyl chloride	A	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
Total 1,2-Dichloroethene	M	ND	4.3		µg/Kg dry	1	09/17/2010 15:38
Total Xylenes	M	3.0	2.1		µg/Kg dry	1	09/17/2010 15:38
Surr: 1,2-Dichloroethane-d4	S	108.00	51.7-162	%REC		1	09/17/2010 15:38
Surr: 4-Bromofluorobenzene	S	105.00	57.4-135	%REC		1	09/17/2010 15:38
Surr: Dibromofluoromethane	S	99.60	63.5-139	%REC		1	09/17/2010 15:38
Surr: Toluene-d8	S	101.00	66.6-143	%REC		1	09/17/2010 15:38

Total Metals by ICP	Method: SW-846 6010B	Analyst: SA
	Prep Method: SW846 3050B	Prep Date/Time: 09/20/2010 08:44
Arsenic	A 4.9	0.51 mg/Kg dry 1 09/22/2010 20:35
Barium	A 120	0.10 mg/Kg dry 1 09/22/2010 20:35
Cadmium	A 0.24	0.10 mg/Kg dry 1 09/22/2010 20:35
Chromium	A 13	0.15 mg/Kg dry 1 09/22/2010 20:35
Lead	A 19	0.38 mg/Kg dry 1 09/22/2010 20:35
Selenium	A 2.2	1.5 mg/Kg dry 1 09/22/2010 20:35
Silver	A ND	0.51 mg/Kg dry 1 09/22/2010 20:35

Total Mercury by CVAA	Method: SW-846 7471A	Analyst: SA
	Prep Method: SW-846 7471	Prep Date/Time: 09/20/2010 08:46



Analytical Results

Date: Monday, September 27, 2010

Client: LATA-Kemron Remediation LLC - Albuquerque, NM
Client Project: Bautsch - Gray Mine Site
Client Sample ID: BH2
Sample Description:
Matrix: Solid

Work Order/ID: 10I0637-02
Sampled: 09/16/2010 12:40
Received: 09/17/2010 10:00

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
Total Mercury by CVAA		Method: SW-846 7471A					Analyst: SA
Mercury	A	ND	0.040	mg/Kg dry	1	09/21/2010 13:27	Prep Date/Time: 09/20/2010 08:46
Percent Solids		Method: SM2540B Rev 18					Analyst: CSTAS
Percent Solids	A	97	0.10	wt%	1	09/20/2010 6:30	Prep Date/Time: 09/17/2010 15:01



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)

Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)

Indiana DEM approved support laboratory for solid waste and wastewater analyses

Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)

Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)

Kentucky DEP for the chemical analysis of drinking water (lab #90147)

Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)

*New York SDH for the chemical analysis of air and emissions (lab #11909)

North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)

Tennessee DEC for the chemical analysis of drinking water (lab #04017)

Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

COOLER INSPECTION

Client Name: LATA-Kemron Remediation LLC - Albuquerque, NM

Date: Monday, September 27, 2010

Date/Time Received: 09/17/2010 10:00

Received by: Dave Bryant

Reviewed by: 9/21/2010 | DDG

Work Order Number: 10I0637

Checklist completed by: 9/17/2010 10:19:00AM

Dave Bryant

Carrier Name: FedEx

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 4.00°C

After-Hour Arrival?

Yes

No

Not Present

Shipping container/cooler in good condition?

Yes

No

Not Present

Custody seals intact on shipping container/cooler?

Yes

No

Custody seals intact on sample containers?

Yes

No

COC present?

Yes

No

COC included sufficient client identification?

Yes

No

COC included sufficient sample collector information?

Yes

No

COC included a sample description?

Yes

No

COC agrees with sample labels?

Yes

No

COC identified the appropriate matrix?

Yes

No

COC included date of collection?

Yes

No

COC included time of collection?

Yes

No

COC identified the appropriate number of containers?

Yes

No

Samples in proper container/bottle?

Yes

No

Sample containers intact?

Yes

No

Sufficient sample volume for indicated test?

Yes

No

All samples received within holding time?

Yes

No

If the samples are preserved, are the preservatives identified?

Yes

No

COC included the requested analyses?

Yes

No

If No, adjusted by? _____

COC signed when relinquished and received?

Yes

No

Samples received on ice?

Yes

No

Samples properly preserved?

Yes

No

Voa vials for aqueous samples have zero headspace?

Yes

No

No VOA vials submitted

Cooler Comments: _____

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10I0637-01	BH1	
10I0637-02	BH2	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GC Semivolatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006277 **Prep:** SW846 3550

Polychlorinated Biphenyls

Sample ID:	Blank (B006277-BLK1)	Method:			SW-846 8082	Prepped:		09/21/2010	06:07	Analyzed:		09/21/2010	10:30
Source:		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual		
Aroclor 1016		ND	33	µg/Kg wet									
Aroclor 1221		ND	33	µg/Kg wet									
Aroclor 1232		ND	33	µg/Kg wet									
Aroclor 1242		ND	33	µg/Kg wet									
Aroclor 1248		ND	33	µg/Kg wet									
Aroclor 1254		ND	33	µg/Kg wet									
Aroclor 1260		ND	33	µg/Kg wet									
Aroclor 1262		ND	33	µg/Kg wet									
Aroclor 1268		ND	33	µg/Kg wet									
Total PCB's		ND	33	µg/Kg wet									
<i>Surrogate: Decachlorobiphenyl</i>	7.3			µg/Kg wet	6.667			110	38-128				
<i>Surrogate: Tetrachloro-m-xylene</i>	6.0			µg/Kg wet	6.667			90.0	40-130				

Sample ID:	LCS (B006277-BS1)	Method:			SW-846 8082	Prepped:		09/21/2010	06:07	Analyzed:		09/21/2010	10:55
Source:		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual		
Aroclor 1016		178	33	µg/Kg wet	166.7			107	30.2-145			30	
Aroclor 1260		177	33	µg/Kg wet	166.7			106	40.1-138			30	
<i>Surrogate: Decachlorobiphenyl</i>	7.3			µg/Kg wet	6.667			110	38-128				
<i>Surrogate: Tetrachloro-m-xylene</i>	6.3			µg/Kg wet	6.667			95.0	40-130				

Sample ID:	Matrix Spike (B006277-MS1)	Method:			SW-846 8082	Prepped:		09/21/2010	06:07	Analyzed:		09/21/2010	13:01
Source:	10I0571-08	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual		
Aroclor 1016		542	180	µg/Kg dry	897.7	ND	60.4	27.2-130				40	
Aroclor 1260		451	180	µg/Kg dry	897.7	ND	50.3	23.8-131				40	
<i>Surrogate: Decachlorobiphenyl</i>	20			µg/Kg dry	35.91			55.0	38-128				
<i>Surrogate: Tetrachloro-m-xylene</i>	14			µg/Kg dry	35.91			40.0	40-130				

Sample ID:	Matrix Spike Dup (B006277-MSD1)	Method:			SW-846 8082	Prepped:		09/21/2010	06:07	Analyzed:		09/21/2010	13:26
Source:	10I0571-08	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual		
Aroclor 1016		548	180	µg/Kg dry	897.4	ND	61.1	27.2-130	1.09			40	
Aroclor 1260		497	180	µg/Kg dry	897.4	ND	55.4	23.8-131	9.58			40	
<i>Surrogate: Decachlorobiphenyl</i>	20			µg/Kg dry	35.90			55.0	38-128				
<i>Surrogate: Tetrachloro-m-xylene</i>	14			µg/Kg dry	35.90			40.0	40-130				S



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Semivolatile Organic Compounds

Sample ID:	Blank (B006388-BLK1)	Method: SW-846 8270C			Prepped: 09/23/2010 07:21		Analyzed: 09/23/2010 10:25				
Source:		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene		ND	330	µg/Kg wet							
1,2-Dichlorobenzene		ND	330	µg/Kg wet							
1,2-Diphenyl-hydrazine		ND	330	µg/Kg wet							
1,3-Dichlorobenzene		ND	330	µg/Kg wet							
1,4-Dichlorobenzene		ND	330	µg/Kg wet							
2,2'-oxybis(1-chloropropane)		ND	330	µg/Kg wet							
2,4,5-Trichlorophenol		ND	330	µg/Kg wet							
2,4,6-Trichlorophenol		ND	330	µg/Kg wet							
2,4-Dichlorophenol		ND	330	µg/Kg wet							
2,4-Dimethylphenol		ND	330	µg/Kg wet							
2,4-Dinitrophenol		ND	1600	µg/Kg wet							
2,4-Dinitrotoluene		ND	330	µg/Kg wet							
2,6-Dichlorophenol		ND	330	µg/Kg wet							
2,6-Dinitrotoluene		ND	330	µg/Kg wet							
2-Chloronaphthalene		ND	330	µg/Kg wet							
2-Chlorophenol		ND	330	µg/Kg wet							
2-Methyl-4,6-dinitrophenol		ND	1600	µg/Kg wet							
2-Methylnaphthalene		ND	330	µg/Kg wet							
2-Methylphenol		ND	330	µg/Kg wet							
2-Nitroaniline		ND	1600	µg/Kg wet							
2-Nitrophenol		ND	330	µg/Kg wet							
3,3'-Dichlorobenzidine		ND	1600	µg/Kg wet							
3,4-Benzofluoranthene		ND	330	µg/Kg wet							
3/4-Methylphenol		ND	330	µg/Kg wet							
3-Nitroaniline		ND	330	µg/Kg wet							
4,6-Dinitro-2-methylphenol		ND	1600	µg/Kg wet							
4,6-Dinitro-o-cresol		ND	1600	µg/Kg wet							
4-Bromophenyl phenyl ether		ND	330	µg/Kg wet							
4-Chloro-3-methylphenol		ND	660	µg/Kg wet							
4-Chloroaniline		ND	330	µg/Kg wet							
4-Chlorophenyl phenyl ether		ND	330	µg/Kg wet							
4-Nitroaniline		ND	1600	µg/Kg wet							
4-Nitrophenol		ND	1600	µg/Kg wet							
Acenaphthene		ND	330	µg/Kg wet							
Acenaphthylene		ND	330	µg/Kg wet							
Acetophenone		ND	330	µg/Kg wet							
Aniline		ND	330	µg/Kg wet							
Anthracene		ND	330	µg/Kg wet							
Benzidine		ND	1600	µg/Kg wet							



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID:	Blank (B006388-BLK1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:25			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[a]anthracene			ND	330	µg/Kg wet							
Benzo[a]pyrene			ND	330	µg/Kg wet							
Benzo[b]fluoranthene			ND	330	µg/Kg wet							
Benzo[g,h,i]perylene			ND	330	µg/Kg wet							
Benzo[k]fluoranthene			ND	330	µg/Kg wet							
Benzoic acid			ND	1600	µg/Kg wet							
Benzyl alcohol			ND	660	µg/Kg wet							
beta-Chloronaphthalene			ND	330	µg/Kg wet							
Bis(2-chloroethoxy)methane			ND	330	µg/Kg wet							
Bis(2-chloroethyl)ether			ND	330	µg/Kg wet							
Bis(2-ethylhexyl)phthalate			ND	330	µg/Kg wet							
Butyl benzyl phthalate			ND	330	µg/Kg wet							
Carbazole			ND	330	µg/Kg wet							
Chrysene			ND	330	µg/Kg wet							
Di(2-ethylhexyl) phthalate			ND	330	µg/Kg wet							
Dibenz[a,h]anthracene			ND	330	µg/Kg wet							
Dibenzofuran			ND	330	µg/Kg wet							
Diethyl phthalate			ND	330	µg/Kg wet							
Dimethyl phthalate			ND	330	µg/Kg wet							
Di-n-butyl phthalate			ND	330	µg/Kg wet							
Di-n-octyl phthalate			ND	330	µg/Kg wet							
Fluoranthene			ND	330	µg/Kg wet							
Fluorene			ND	330	µg/Kg wet							
Hexachlorobenzene			ND	330	µg/Kg wet							
Hexachlorobutadiene			ND	330	µg/Kg wet							
Hexachlorocyclopentadiene			ND	330	µg/Kg wet							
Hexachloroethane			ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene			ND	330	µg/Kg wet							
Isophorone			ND	330	µg/Kg wet							
m-Dichlorobenzene			ND	330	µg/Kg wet							
Naphthalene			ND	330	µg/Kg wet							
Nitrobenzene			ND	330	µg/Kg wet							
N-Nitrosodimethylamine			ND	330	µg/Kg wet							
N-Nitrosodi-n-propylamine			ND	330	µg/Kg wet							
N-Nitrosodiphenylamine			ND	330	µg/Kg wet							
o-Chlorophenol			ND	330	µg/Kg wet							
p-Chloroaniline			ND	660	µg/Kg wet							
p-Chloro-m-cresol			ND	660	µg/Kg wet							
p-Cresol			ND	330	µg/Kg wet							
Pentachlorophenol			ND	1600	µg/Kg wet							
Phenanthrene			ND	330	µg/Kg wet							



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	Blank (B006388-BLK1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:25			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol			ND	330	µg/Kg wet							
Pyrene			ND	330	µg/Kg wet							
Pyridine			ND	330	µg/Kg wet							
Total Cresol			ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol			88		ug/mL	100.0		87.9	13.9-145			
Surrogate: 2-Fluorobiphenyl			40		ug/mL	50.00		80.5	28.1-110			
Surrogate: 2-Fluorophenol			82		ug/mL	100.0		81.8	24.5-110			
Surrogate: Nitrobenzene-d5			42		ug/mL	50.00		83.0	33.6-110			
Surrogate: Phenol-d5			84		ug/mL	100.0		83.6	29.6-110			
Surrogate: Terphenyl-d14			50		ug/mL	50.00		100	35.8-121			

Sample ID:	Blank (B006388-BLK2)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:42			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Acenaphthene			ND	330	µg/Kg wet							
Acenaphthylene			ND	330	µg/Kg wet							
Anthracene			ND	330	µg/Kg wet							
Benz[a]anthracene			ND	330	µg/Kg wet							
Benzo[a]pyrene			ND	330	µg/Kg wet							
Benzo[b]fluoranthene			ND	330	µg/Kg wet							
Benzo[g,h,i]perylene			ND	330	µg/Kg wet							
Benzo[k]fluoranthene			ND	330	µg/Kg wet							
Chrysene			ND	330	µg/Kg wet							
Dibenz[a,h]anthracene			ND	330	µg/Kg wet							
Fluoranthene			ND	330	µg/Kg wet							
Fluorene			ND	330	µg/Kg wet							
Indeno[1,2,3cd]pyrene			ND	330	µg/Kg wet							
Naphthalene			ND	330	µg/Kg wet							
Phenanthrene			ND	330	µg/Kg wet							
Pyrene			ND	330	µg/Kg wet							
Surrogate: 2,4,6-Tribromophenol			82		ug/mL	100.0		82.4	13.9-145			
Surrogate: 2-Fluorobiphenyl			41		ug/mL	50.00		81.1	28.1-110			
Surrogate: 2-Fluorophenol			79		ug/mL	100.0		79.1	24.5-110			
Surrogate: Nitrobenzene-d5			39		ug/mL	50.00		77.7	33.6-110			
Surrogate: Phenol-d5			82		ug/mL	100.0		81.6	29.6-110			
Surrogate: Terphenyl-d14			43		ug/mL	50.00		86.2	35.8-121			

Sample ID:	LCS (B006388-BS1)	Method:	SW-846 8270C		Prepped:	09/23/2010 07:21		Analyzed:	09/23/2010 10:49			
Source:			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene			2210	330	µg/Kg wet	3333		66.4	35.9-110		30	
1,4-Dichlorobenzene			1980	330	µg/Kg wet	3333		59.4	20-124		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	LCS (B006388-BS1)	Method:	SW-846 8270C			Prepped:	09/23/2010	07:21		
Source:						Analyzed:	09/23/2010	10:49		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
2,2'-oxybis(1-chloropropane)	2160	330	µg/Kg wet	3333		64.7	10-113		30	
2,4-Dinitrotoluene	2110	330	µg/Kg wet	3333		63.2	42.6-110		30	
2-Chloronaphthalene	2300	330	µg/Kg wet	3333		69.0	19-111		30	
2-Chlorophenol	2230	330	µg/Kg wet	3333		67.0	36.1-110		30	
3,3'-Dichlorobenzidine	2720	1600	µg/Kg wet	3333		81.7	50-150		30	
4-Chloro-3-methylphenol	2420	660	µg/Kg wet	3333		72.5	40.6-119		30	
4-Chlorophenyl phenyl ether	2540	330	µg/Kg wet	3333		76.2	24-113		30	
4-Nitrophenol	2250	1600	µg/Kg wet	3333		67.5	39.1-110		30	
Acenaphthene	2230	330	µg/Kg wet	3333		66.8	42.1-110		30	
Benzo[g,h,i]perylene	2520	330	µg/Kg wet	3333		75.5	50-150		30	
Benzo[k]fluoranthene	2370	330	µg/Kg wet	3333		71.1	28-144		30	
Bis(2-ethylhexyl)phthalate	2430	330	µg/Kg wet	3333		73.0	22-128		30	
Dibenz[a,h]anthracene	2450	330	µg/Kg wet	3333		73.4	26-175		30	
Diethyl phthalate	2530	330	µg/Kg wet	3333		76.0	16-119		30	
Dimethyl phthalate	2370	330	µg/Kg wet	3333		71.0	15-130		30	
Indeno[1,2,3cd]pyrene	2700	330	µg/Kg wet	3333		81.1	50-150		30	
N-Nitrosodi-n-propylamine	2090	330	µg/Kg wet	3333		62.7	38.1-110		30	
Pentachlorophenol	1750	1600	µg/Kg wet	3333		52.6	22.1-110		30	
Phenol	1790	330	µg/Kg wet	3333		53.7	38.9-110		30	
Pyrene	2730	330	µg/Kg wet	3333		82.0	44.3-116		30	
Surrogate: 2,4,6-Tribromophenol	76		ug/mL	100.0		76.5	13.9-145			
Surrogate: 2-Fluorobiphenyl	39		ug/mL	50.00		77.7	28.1-110			
Surrogate: 2-Fluorophenol	74		ug/mL	100.0		74.3	24.5-110			
Surrogate: Nitrobenzene-d5	36		ug/mL	50.00		71.9	33.6-110			
Surrogate: Phenol-d5	68		ug/mL	100.0		68.1	29.6-110			
Surrogate: Terphenyl-d14	47		ug/mL	50.00		93.4	35.8-121			

Sample ID:	Matrix Spike (B006388-MS1)	Method:	SW-846 8270C			Prepped:	09/23/2010	07:21		
Source:	10I0753-01					Analyzed:	09/23/2010	14:48		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2920	380	µg/Kg dry	3807	ND	76.6	33.9-110		30	
1,4-Dichlorobenzene	2750	380	µg/Kg dry	3807	ND	72.3	10-134		30	
2,2'-oxybis(1-chloropropane)	2620	380	µg/Kg dry	3807	ND	68.8	10-123		30	
2,4-Dinitrotoluene	3160	380	µg/Kg dry	3807	ND	83.1	49.9-110		30	
2-Chloronaphthalene	2780	380	µg/Kg dry	3807	ND	72.9	10-121		30	
2-Chlorophenol	2880	380	µg/Kg dry	3807	ND	75.7	35.7-110		30	
3,3'-Dichlorobenzidine	3080	1800	µg/Kg dry	3807	ND	80.8	40-160		30	
4-Chloro-3-methylphenol	3300	750	µg/Kg dry	3807	ND	86.6	41.5-121		30	
4-Chlorophenyl phenyl ether	3130	380	µg/Kg dry	3807	ND	82.2	14-123		30	
4-Nitrophenol	2760	1800	µg/Kg dry	3807	ND	72.5	32.1-121		30	
Acenaphthene	3000	380	µg/Kg dry	3807	ND	78.8	39.8-110		30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Semivolatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006388 Prep: SW846 3550A

Sample ID:	Matrix Spike (B006388-MS1)		Method:	SW-846 8270C			Prepped:	09/23/2010	07:21	
Source:	10I0753-01						Analyzed:	09/23/2010	14:48	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Benzo[g,h,i]perylene	2400	380	µg/Kg dry	3807	ND	63.1	40-160		30	
Benzo[k]fluoranthene	2110	380	µg/Kg dry	3807	ND	55.5	18-154		30	
Bis(2-ethylhexyl)phthalate	3540	380	µg/Kg dry	3807	ND	92.9	12-138		30	
Dibenz[a,h]anthracene	2540	380	µg/Kg dry	3807	ND	66.7	16-185		30	
Diethyl phthalate	3160	380	µg/Kg dry	3807	ND	83.0	10-129		30	
Dimethyl phthalate	2940	380	µg/Kg dry	3807	ND	77.4	10-140		30	
Indeno[1,2,3cd]pyrene	2620	380	µg/Kg dry	3807	ND	68.9	40-160		30	
N-Nitrosodi-n-propylamine	3110	380	µg/Kg dry	3807	ND	81.6	37.4-110		30	
Pentachlorophenol	2490	1800	µg/Kg dry	3807	ND	65.5	10.6-110		30	
Phenol	2680	380	µg/Kg dry	3807	ND	70.4	43.3-110		30	
Pyrene	2950	380	µg/Kg dry	3807	ND	77.6	37.6-113		30	
Surrogate: 2,4,6-Tribromophenol	96		ug/mL	100.0		96.0	13.9-145			
Surrogate: 2-Fluorobiphenyl	43		ug/mL	50.00		86.5	28.1-110			
Surrogate: 2-Fluorophenol	86		ug/mL	100.0		85.7	24.5-110			
Surrogate: Nitrobenzene-d5	40		ug/mL	50.00		79.9	33.6-110			
Surrogate: Phenol-d5	82		ug/mL	100.0		82.1	29.6-110			
Surrogate: Terphenyl-d14	48		ug/mL	50.00		96.0	35.8-121			

Sample ID:	Matrix Spike Dup (B006388-MSD1)		Method:	SW-846 8270C			Prepped:	09/23/2010	07:21	
Source:	10I0753-01						Analyzed:	09/23/2010	15:13	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,2,4-Trichlorobenzene	2560	380	µg/Kg dry	3807	ND	67.2	33.9-110	13.0	30	
1,4-Dichlorobenzene	2150	380	µg/Kg dry	3807	ND	56.4	10-134	24.7	30	
2,2'-oxybis(1-chloropropane)	2350	380	µg/Kg dry	3807	ND	61.7	10-123	10.8	30	
2,4-Dinitrotoluene	2770	380	µg/Kg dry	3807	ND	72.8	49.9-110	13.2	30	
2-Chloronaphthalene	2650	380	µg/Kg dry	3807	ND	69.7	10-121	4.53	30	
2-Chlorophenol	2600	380	µg/Kg dry	3807	ND	68.3	35.7-110	10.2	30	
3,3'-Dichlorobenzidine	3000	1800	µg/Kg dry	3807	ND	78.8	40-160	2.52	30	
4-Chloro-3-methylphenol	2940	750	µg/Kg dry	3807	ND	77.3	41.5-121	11.5	30	
4-Chlorophenyl phenyl ether	3110	380	µg/Kg dry	3807	ND	81.6	14-123	0.781	30	
4-Nitrophenol	2990	1800	µg/Kg dry	3807	ND	78.7	32.1-121	8.11	30	
Acenaphthene	2670	380	µg/Kg dry	3807	ND	70.2	39.8-110	11.6	30	
Benzo[g,h,i]perylene	2320	380	µg/Kg dry	3807	ND	60.9	40-160	3.50	30	
Benzo[k]fluoranthene	2130	380	µg/Kg dry	3807	ND	55.9	18-154	0.808	30	
Bis(2-ethylhexyl)phthalate	3260	380	µg/Kg dry	3807	ND	85.6	12-138	8.13	30	
Dibenz[a,h]anthracene	2490	380	µg/Kg dry	3807	ND	65.3	16-185	2.17	30	
Diethyl phthalate	3120	380	µg/Kg dry	3807	ND	81.9	10-129	1.26	30	
Dimethyl phthalate	2910	380	µg/Kg dry	3807	ND	76.3	10-140	1.34	30	
Indeno[1,2,3cd]pyrene	2650	380	µg/Kg dry	3807	ND	69.6	40-160	0.895	30	
N-Nitrosodi-n-propylamine	2390	380	µg/Kg dry	3807	ND	62.7	37.4-110	26.2	30	
Pentachlorophenol	2520	1800	µg/Kg dry	3807	ND	66.2	10.6-110	1.03	30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **GCMS Semivolatiles - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006388 **Prep:** SW846 3550A

Sample ID:	Matrix Spike Dup (B006388-MSD1)	Method:			SW-846 8270C		Prepped:	09/23/2010 07:21		
Source:	10I0753-01						Analyzed:	09/23/2010 15:13		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Phenol	2160	380	µg/Kg dry	3807	ND	56.6	43.3-110	21.7	30	
Pyrene	3030	380	µg/Kg dry	3807	ND	79.6	37.6-113	2.61	30	
<i>Surrogate: 2,4,6-Tribromophenol</i>	90		ug/mL	100.0		90.0	13.9-145			
<i>Surrogate: 2-Fluorobiphenyl</i>	39		ug/mL	50.00		77.7	28.1-110			
<i>Surrogate: 2-Fluorophenol</i>	70		ug/mL	100.0		69.8	24.5-110			
<i>Surrogate: Nitrobenzene-d5</i>	36		ug/mL	50.00		72.9	33.6-110			
<i>Surrogate: Phenol-d5</i>	69		ug/mL	100.0		69.3	29.6-110			
<i>Surrogate: Terphenyl-d14</i>	45		ug/mL	50.00		89.4	35.8-121			



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006194



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006194

Volatile Organic Compounds, 5035 prep, SB preserve

Sample ID:	Blank (B006194-BLK1)	Method:	SW-846 8260B		Prepped:	09/17/2010 11:58		Source:	Analyzed:	09/17/2010 13:34	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
1,1,1,2-Tetrachloroethane	ND	10	µg/Kg wet								
1,1,1-Trichloroethane	ND	5.0	µg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg wet								
1,1,2-Trichloroethane	ND	5.0	µg/Kg wet								
1,1-Dichloroethane	ND	5.0	µg/Kg wet								
1,1-Dichloroethene	ND	5.0	µg/Kg wet								
1,2-Dichloroethane	ND	5.0	µg/Kg wet								
1,2-Dichloropropane	ND	5.0	µg/Kg wet								
2-Butanone	ND	10	µg/Kg wet								
2-Hexanone	ND	5.0	µg/Kg wet								
4-Methyl-2-Pentanone	ND	5.0	µg/Kg wet								
Acetone	ND	50	µg/Kg wet								
Acrolein	ND	100	µg/Kg wet								
Acrylonitrile	ND	100	µg/Kg wet								
Benzene	ND	5.0	µg/Kg wet								
Bromodichloromethane	ND	5.0	µg/Kg wet								
Bromoform	ND	5.0	µg/Kg wet								
Bromomethane	ND	10	µg/Kg wet								
Carbon Disulfide	ND	10	µg/Kg wet								
Carbon tetrachloride	ND	5.0	µg/Kg wet								
Chlorobenzene	ND	5.0	µg/Kg wet								
Chloroethane	ND	10	µg/Kg wet								
Chloroform	ND	5.0	µg/Kg wet								
Chloromethane	ND	10	µg/Kg wet								
cis-1,2-Dichloroethene	ND	5.0	µg/Kg wet								
cis-1,3-Dichloropropene	ND	5.0	µg/Kg wet								
Dibromochloromethane	ND	5.0	µg/Kg wet								
Ethylbenzene	ND	5.0	µg/Kg wet								
m,p-Xylene	ND	5.0	µg/Kg wet								
Methylene chloride	ND	20	µg/Kg wet								
Methyl-t-Butyl Ether	ND	5.0	µg/Kg wet								
o-Xylene	ND	5.0	µg/Kg wet								
Styrene	ND	5.0	µg/Kg wet								
Tetrachloroethene	ND	5.0	µg/Kg wet								
Toluene	ND	5.0	µg/Kg wet								
trans-1,2-Dichloroethene	ND	5.0	µg/Kg wet								
trans-1,3-Dichloropropene	ND	5.0	µg/Kg wet								
Trichloroethene	ND	5.0	µg/Kg wet								
Trichlorofluoromethane	ND	10	µg/Kg wet								



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID:	Blank (B006194-BLK1)	Method:			SW-846 8260B		Prepped:	09/17/2010 11:58		
Source:							Analyzed:	09/17/2010 13:34		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Vinyl Acetate	ND	10	µg/Kg wet							
Vinyl chloride	ND	10	µg/Kg wet							
Total 1,2-Dichloroethene	ND	10	µg/Kg wet							
Total Xylenes	ND	5.0	µg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	55		µg/L	50.00	111	51.7-162				
Surrogate: 4-Bromofluorobenzene	50		µg/L	50.00	101	57.4-135				
Surrogate: Dibromofluoromethane	52		µg/L	50.00	105	63.5-139				
Surrogate: Toluene-d8	50		µg/L	50.00	101	66.6-143				

Sample ID:	LCS (B006194-BS1)	Method:			SW-846 8260B		Prepped:	09/17/2010 11:58		
Source:							Analyzed:	09/17/2010 14:04		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	56.0		µg/L	50.00	112	73.2-127			30	
1,1,1-Trichloroethane	54.8		µg/L	50.00	110	68.4-134			30	
1,1,2,2-Tetrachloroethane	52.7		µg/L	50.00	105	67.8-115			30	
1,1,2-Trichloroethane	54.2		µg/L	50.00	108	74-114			30	
1,1-Dichloroethane	57.0		µg/L	50.00	114	70.3-121			30	
1,1-Dichloroethene	48.8		µg/L	50.00	97.6	54-119			30	
1,2-Dichloroethane	55.5		µg/L	50.00	111	65.5-129			30	
1,2-Dichloropropane	55.5		µg/L	50.00	111	68.6-124			30	
2-Butanone	51.1		µg/L	50.00	102	55.8-114			30	
2-Hexanone	49.0		µg/L	50.00	98.0	49.9-110				
4-Methyl-2-Pentanone	53.2		µg/L	50.00	106	57-114			30	
Acetone	59.6		µg/L	50.00	119	37.2-135			30	
Acrylonitrile	59.3		µg/L	50.00	119	45.3-148			30	
Benzene	53.8		µg/L	50.00	108	71.8-123			30	
Bromodichloromethane	56.2		µg/L	50.00	112	69.4-132			30	
Bromoform	43.8		µg/L	50.00	87.6	54.7-123			30	
Bromomethane	36.9		µg/L	50.00	73.9	10-143			30	
Carbon Disulfide	58.1		µg/L	50.00	116	80-159			30	
Carbon tetrachloride	55.2		µg/L	50.00	110	68.6-138			30	
Chlorobenzene	56.6		µg/L	50.00	113	80.1-122			30	
Chloroethane	52.0		µg/L	50.00	104	53.6-121			30	
Chloroform	55.9		µg/L	50.00	112	71.9-127			30	
Chloromethane	46.9		µg/L	50.00	93.9	28.3-124			30	
cis-1,2-Dichloroethene	57.5		µg/L	50.00	115	81.5-132			30	
cis-1,3-Dichloropropene	57.2		µg/L	50.00	114	74.9-117			30	
Dibromochloromethane	50.2		µg/L	50.00	100	65.1-132			30	
Ethylbenzene	56.7		µg/L	50.00	113	77.1-124			30	
m,p-Xylene	114		µg/L	100.0	114	77.4-126			30	
Methylene chloride	57.3		µg/L	50.00	115	69.2-138			30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID:	LCS (B006194-BS1)		Method:			SW-846 8260B		Prepped:		09/17/2010	11:58
Source:								Analyzed:		09/17/2010	14:04
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Methyl-t-Butyl Ether	51.8		µg/L	50.00		104	77.8-120		30		
o-Xylene	57.3		µg/L	50.00		115	74.9-124		30		
Styrene	58.0		µg/L	50.00		116	77.7-117		30		
Tetrachloroethene	56.8		µg/L	50.00		114	81.9-127		30		
Toluene	56.0		µg/L	50.00		112	76.7-122		30		
trans-1,2-Dichloroethene	53.8		µg/L	50.00		108	67.6-126		30		
trans-1,3-Dichloropropene	63.0		µg/L	50.00		126	77.6-129		30		
Trichloroethene	54.7		µg/L	50.00		109	73.1-131		30		
Trichlorofluoromethane	61.4		µg/L	50.00		123	61.3-140		30		
Vinyl Acetate	67.3		µg/L	50.00		135	52.4-154		30		
Vinyl chloride	45.9		µg/L	50.00		91.8	48.5-124		30		
Surrogate: 1,2-Dichloroethane-d4	51		µg/L	50.00		102	51.7-162				
Surrogate: 4-Bromofluorobenzene	52		µg/L	50.00		103	57.4-135				
Surrogate: Dibromofluoromethane	50		µg/L	50.00		99.0	63.5-139				
Surrogate: Toluene-d8	51		µg/L	50.00		103	66.6-143				

Sample ID:	Matrix Spike (B006194-MS1)		Method:			SW-846 8260B		Prepped:		09/17/2010	11:58
Source:	10I0650-01							Analyzed:		09/17/2010	17:08
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
1,1,1,2-Tetrachloroethane	54.2		µg/L	50.00	ND	108	52.5-130		30		
1,1,1-Trichloroethane	55.5		µg/L	50.00	ND	111	46.3-135		30		
1,1,2,2-Tetrachloroethane	54.1		µg/L	50.00	ND	108	56-146		30		
1,1,2-Trichloroethane	53.3		µg/L	50.00	ND	107	60.2-129		30		
1,1-Dichloroethane	56.7		µg/L	50.00	ND	113	59-131		30		
1,1-Dichloroethene	51.0		µg/L	50.00	ND	102	39.1-116		30		
1,2-Dichloroethane	53.6		µg/L	50.00	ND	107	54.7-126		30		
1,2-Dichloropropane	54.8		µg/L	50.00	ND	110	62.9-118		30		
2-Butanone	51.4		µg/L	50.00	ND	103	38.1-138		30		
2-Hexanone	47.1		µg/L	50.00	ND	94.1	34-149		30		
4-Methyl-2-Pentanone	54.8		µg/L	50.00	ND	110	31.1-175		30		
Acetone	167		µg/L	50.00	198	NR	27.9-161		30	S	
Acrylonitrile	64.7		µg/L	50.00	ND	129	39.4-186		30		
Benzene	53.8		µg/L	50.00	ND	108	54.8-120		30		
Bromodichloromethane	53.7		µg/L	50.00	ND	107	54.6-122		30		
Bromoform	43.4		µg/L	50.00	ND	86.8	31-122		30		
Bromomethane	31.3		µg/L	50.00	ND	62.6	10.8-142		30		
Carbon Disulfide	61.4		µg/L	50.00	ND	123	16-177		30		
Carbon tetrachloride	56.8		µg/L	50.00	ND	114	41.6-132		30		
Chlorobenzene	54.9		µg/L	50.00	ND	110	36.8-129		30		
Chloroethane	54.8		µg/L	50.00	ND	110	42.4-126		30		
Chloroform	56.9		µg/L	50.00	2.78	108	64-123		30		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID:	Matrix Spike (B006194-MS1)		Method:		SW-846 8260B		Prepped:		09/17/2010	11:58
Source:	10I0650-01						Analyzed:		09/17/2010	17:08
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Chloromethane	49.2		µg/L	50.00	ND	98.4	45.3-143		30	
cis-1,2-Dichloroethene	56.7		µg/L	50.00	ND	113	67-126		30	
cis-1,3-Dichloropropene	52.4		µg/L	50.00	ND	105	49.9-139		30	
Dibromochloromethane	48.6		µg/L	50.00	ND	97.3	52.1-132		30	
Ethylbenzene	56.4		µg/L	50.00	ND	113	33.4-133		30	
m,p-Xylene	111		µg/L	100.0	ND	111	30.5-132		30	
Methylene chloride	73.2		µg/L	50.00	32.7	80.9	53.8-125		30	
Methyl-t-Butyl Ether	53.2		µg/L	50.00	0.750	105	41.1-144		30	
o-Xylene	55.6		µg/L	50.00	ND	111	38-123		30	
Styrene	54.9		µg/L	50.00	ND	110	16.9-131		30	
Tetrachloroethene	57.8		µg/L	50.00	ND	116	43-135		30	
Toluene	61.1		µg/L	50.00	7.60	107	35.2-143		30	
trans-1,2-Dichloroethene	55.3		µg/L	50.00	ND	111	53.7-120		30	
trans-1,3-Dichloropropene	58.5		µg/L	50.00	ND	117	42-148		30	
Trichloroethene	55.8		µg/L	50.00	ND	112	37.1-145		30	
Trichlorofluoromethane	67.8		µg/L	50.00	ND	136	40.5-141		30	
Vinyl Acetate	13.2		µg/L	50.00	ND	26.4	22.5-184		30	
Vinyl chloride	49.5		µg/L	50.00	ND	99.0	54.5-143		30	
Surrogate: 1,2-Dichloroethane-d4	50		µg/L	50.00		101	51.7-162			
Surrogate: 4-Bromofluorobenzene	52		µg/L	50.00		104	57.4-135			
Surrogate: Dibromofluoromethane	50		µg/L	50.00		99.0	63.5-139			
Surrogate: Toluene-d8	51		µg/L	50.00		102	66.6-143			

Sample ID:	Matrix Spike Dup (B006194-MSD1)		Method:		SW-846 8260B		Prepped:		09/17/2010	11:58
Source:	10I0650-01						Analyzed:		09/17/2010	17:38
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
1,1,1,2-Tetrachloroethane	51.5		µg/L	50.00	ND	103	52.5-130	5.03	30	
1,1,1-Trichloroethane	52.4		µg/L	50.00	ND	105	46.3-135	5.90	30	
1,1,2,2-Tetrachloroethane	54.8		µg/L	50.00	ND	110	56-146	1.32	30	
1,1,2-Trichloroethane	54.0		µg/L	50.00	ND	108	60.2-129	1.34	30	
1,1-Dichloroethane	55.7		µg/L	50.00	ND	111	59-131	1.89	30	
1,1-Dichloroethene	48.0		µg/L	50.00	ND	95.9	39.1-116	6.20	30	
1,2-Dichloroethane	54.5		µg/L	50.00	ND	109	54.7-126	1.70	30	
1,2-Dichloropropane	53.9		µg/L	50.00	ND	108	62.9-118	1.66	30	
2-Butanone	51.0		µg/L	50.00	ND	102	38.1-138	0.821	30	
2-Hexanone	49.3		µg/L	50.00	ND	98.6	34-149	4.59	30	
4-Methyl-2-Pentanone	53.7		µg/L	50.00	ND	107	31.1-175	2.12	30	
Acetone	158		µg/L	50.00	197	NR	27.9-161	5.89	30	S
Acrylonitrile	60.0		µg/L	50.00	ND	120	39.4-186	7.56	30	
Benzene	52.0		µg/L	50.00	ND	104	54.8-120	3.23	30	
Bromodichloromethane	53.3		µg/L	50.00	ND	107	54.6-122	0.822	30	



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

GCMS Volatiles - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006194

Sample ID:	Matrix Spike Dup (B006194-MSD1)		Method:		SW-846 8260B		Prepped:	09/17/2010	11:58	
Source:	10I0650-01						Analyzed:	09/17/2010	17:38	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Bromoform	43.0		µg/L	50.00	ND	86.0	31-122	0.995	30	
Bromomethane	33.9		µg/L	50.00	ND	67.9	10.8-142	8.06	30	
Carbon Disulfide	54.0		µg/L	50.00	ND	108	16-177	12.9	30	
Carbon tetrachloride	52.2		µg/L	50.00	ND	104	41.6-132	8.48	30	
Chlorobenzene	52.6		µg/L	50.00	ND	105	36.8-129	4.26	30	
Chloroethane	48.0		µg/L	50.00	ND	96.0	42.4-126	13.2	30	
Chloroform	54.9		µg/L	50.00	2.77	104	64-123	3.63	30	
Chloromethane	44.4		µg/L	50.00	ND	88.7	45.3-143	10.4	30	
cis-1,2-Dichloroethene	54.5		µg/L	50.00	ND	109	67-126	3.92	30	
cis-1,3-Dichloropropene	50.2		µg/L	50.00	ND	100	49.9-139	4.41	30	
Dibromochloromethane	47.6		µg/L	50.00	ND	95.3	52.1-132	2.08	30	
Ethylbenzene	53.6		µg/L	50.00	ND	107	33.4-133	5.09	30	
m,p-Xylene	106		µg/L	100.0	ND	106	30.5-132	4.84	30	
Methylene chloride	70.0		µg/L	50.00	32.6	74.9	53.8-125	4.36	30	
Methyl-t-Butyl Ether	52.9		µg/L	50.00	0.747	104	41.1-144	0.603	30	
o-Xylene	52.4		µg/L	50.00	ND	105	38-123	6.00	30	
Styrene	52.6		µg/L	50.00	ND	105	16.9-131	4.20	30	
Tetrachloroethene	52.6		µg/L	50.00	ND	105	43-135	9.58	30	
Toluene	59.1		µg/L	50.00	7.57	103	35.2-143	3.28	30	
trans-1,2-Dichloroethene	52.0		µg/L	50.00	ND	104	53.7-120	6.11	30	
trans-1,3-Dichloropropene	57.1		µg/L	50.00	ND	114	42-148	2.44	30	
Trichloroethene	53.1		µg/L	50.00	ND	106	37.1-145	5.01	30	
Trichlorofluoromethane	57.4		µg/L	50.00	ND	115	40.5-141	16.6	30	
Vinyl Acetate	6.27		µg/L	50.00	ND	12.5	22.5-184	71.1	30	RS
Vinyl chloride	43.2		µg/L	50.00	ND	86.4	54.5-143	13.6	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52		µg/L	50.00		104	51.7-162			
<i>Surrogate: 4-Bromofluorobenzene</i>	52		µg/L	50.00		104	57.4-135			
<i>Surrogate: Dibromofluoromethane</i>	49		µg/L	50.00		97.7	63.5-139			
<i>Surrogate: Toluene-d8</i>	50		µg/L	50.00		101	66.6-143			



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM

Metals - Quality Control

Work Order: 10I0637

Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site
Batch: B006234 **Prep:** SW846 3050B

Total Metals by ICP

Sample ID:	Blank (B006234-BLK1)		Method:			SW-846 6010B		Prepped:		09/20/2010 08:44	
Source:								Analyzed:		09/22/2010 19:29	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	ND	0.50	mg/Kg wet								
Barium	ND	0.10	mg/Kg wet								
Cadmium	ND	0.10	mg/Kg wet								
Chromium	ND	0.15	mg/Kg wet								
Lead	ND	0.38	mg/Kg wet								
Selenium	ND	1.5	mg/Kg wet								
Silver	ND	0.50	mg/Kg wet								

Sample ID:	LCS (B006234-BS1)		Method:			SW-846 6010B		Prepped:		09/20/2010 08:44	
Source:								Analyzed:		09/22/2010 19:56	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	228	1.0	mg/Kg wet	238.0		96.0	65.1-118		20		
Barium	239	0.20	mg/Kg wet	243.0		98.4	68.3-118		20		
Cadmium	169	0.20	mg/Kg wet	185.0		91.4	64.9-112		20		
Chromium	107	0.30	mg/Kg wet	104.0		103	65.8-124		20		
Lead	135	0.75	mg/Kg wet	154.0		87.9	62.9-110		20		
Selenium	131	3.0	mg/Kg wet	156.0		83.8	54.9-110		20		
Silver	64.2	1.0	mg/Kg wet	73.20		87.7	56.8-113		20		

Sample ID:	Matrix Spike (B006234-MS1)		Method:			SW-846 6010B		Prepped:		09/20/2010 08:44	
Source:	10I0668-01							Analyzed:		09/22/2010 20:46	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	119	0.58	mg/Kg dry	116.9	3.03	98.8	75-125		20		
Barium	255	0.12	mg/Kg dry	128.6	6.71	193	75-125		20	S	
Cadmium	12.1	0.12	mg/Kg dry	11.69	0.221	102	75-125		20		
Chromium	132	0.18	mg/Kg dry	116.9	2.33	111	75-125		20		
Lead	129	0.44	mg/Kg dry	116.9	22.3	91.3	75-125		20		
Selenium	112	1.8	mg/Kg dry	116.9	5.92	91.0	75-125		20		
Silver	11.2	0.58	mg/Kg dry	11.69	0.176	94.1	75-125		20		

Sample ID:	Matrix Spike Dup (B006234-MSD1)		Method:			SW-846 6010B		Prepped:		09/20/2010 08:44	
Source:	10I0668-01							Analyzed:		09/22/2010 21:13	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Arsenic	117	0.58	mg/Kg dry	116.9	3.03	97.2	75-125	1.64	20		
Barium	256	0.12	mg/Kg dry	128.6	6.71	194	75-125	0.321	20	S	
Cadmium	11.2	0.12	mg/Kg dry	11.69	0.221	93.8	75-125	7.88	20		
Chromium	130	0.18	mg/Kg dry	116.9	2.33	109	75-125	1.56	20		
Lead	127	0.44	mg/Kg dry	116.9	22.3	89.3	75-125	1.87	20		
Selenium	110	1.8	mg/Kg dry	116.9	5.92	89.2	75-125	1.84	20		
Silver	11.1	0.58	mg/Kg dry	11.69	0.176	93.2	75-125	0.946	20		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Metals - Quality Control**
Work Order: 10I0637
Project: Bautsch - Gray Mine Site

Batch: B006234 **Prep:** SW846 3050B

Sample ID:	Post Spike (B006234-PS1)			Method:	SW-846 6010B			Prepped:	09/20/2010 08:44		
Source:	10I0668-01							Analyzed:	09/23/2010 12:43		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Barium	4.38		mg/Kg	2.200	0.118	194	85-115			S	

Batch: B006249 **Prep:** SW-846 7471

Total Mercury by CVAA

Sample ID:	Blank (B006249-BLK1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:								Analyzed:	09/21/2010 13:17		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	ND	0.0010	mg/Kg wet								

Sample ID:	LCS (B006249-BS1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:								Analyzed:	09/21/2010 13:19		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	5.94	2.0	mg/Kg wet	7.070		84.0	41.9-122				

Sample ID:	Matrix Spike (B006249-MS1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:	10I0668-01							Analyzed:	09/21/2010 13:30		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	0.117	0.042	mg/Kg dry	0.08350	0.0343	99.0	70-130			20	

Sample ID:	Matrix Spike Dup (B006249-MSD1)			Method:	SW-846 7471A			Prepped:	09/20/2010 08:46		
Source:	10I0668-01							Analyzed:	09/21/2010 13:32		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual	
Mercury	0.110	0.043	mg/Kg dry	0.08595	0.0343	88.4	70-130	5.94	20		



Analytical QC Summary

Client: LATA-Kemron Remediation LLC - Albuquerque, NM **Wet Chemistry - Quality Control**
Work Order: 1010637
Project: Bautsch - Gray Mine Site
Batch: B006208

Percent Solids

Sample ID:	Duplicate (B006208-DUP1)	Method:	SM2540B Rev 18			Prepped:	09/17/2010	15:01
Source:	1010637-02					Analyzed:	09/20/2010	06:30
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD
Percent Solids	96.7	0.10	wt%		96.7		0.0771	20

